

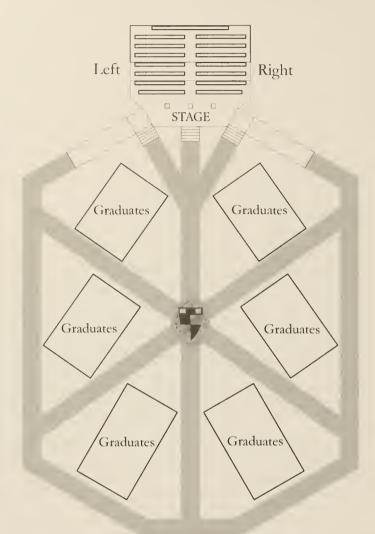


2004 Commencement

# CONFERRING OF DEGREES at the Close of the 128th Academic Year

## CLASS OF 2004 May 20, 2004 9:15 a.m.

### **GRADUATES SEATING**



#### Order of Seating Facing Stage (Graduates Left)

Doctors of Philosophy and Doctors of Medicine - Medicine Doctors of Philosophy - Adranced International Studies Doctors of Philosophy, Doctors of Public Health and Doctors of Science - Public Health Doctors of Philosophy and Doctors of Nursing Science - Nursing Doctors of Musical Arts and Artist Diplomas - Peabody Doctors of Education - Professional Studies in Business and Education Masters - Medicine Masters - Medicine Masters - Adranced International Studies Masters and Bachelors - Nursing Masters, Certificates, Diplomas, and Bachelors - Peabody Certificates of Advanced Graduate Study and Masters -Professional Studies in Business and Education

Bachelors - Professional Studies in Business and Education

### Order of Seating Facing Stage (Graduates Right)

Doctors of Philosophy - Arts and Sciences Doctors of Philosophy - Engineering Masters and Certificates - Arts and Sciences Masters and Certificates - Engineering Bachelors - Engineering Bachelors - Arts and Sciences

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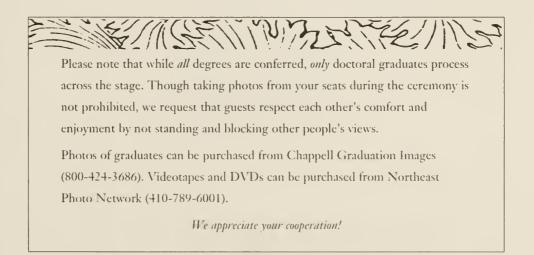
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# E STINKE

### ORDER OF PROCESSION

#### Marshals

Stephen Campbell Lenore Cohen Valeria Culotta Jane Dailey Sydney T. Green Jakub Grygiel Peter C. Maloney Vicki Mock

Marc Parlange Peter Petersen Mark Robbins Edyth Schoenrich Neil Thompson Shade Scott Smith James B. Spicer Susan Weiss

The Graduates

Marshals Christopher Brown Shiyi Chen

The Faculties

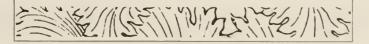
Marshals Michael D. Moyer

William P. Kotti

Officers of the University The Trustees Members of the Society of Scholars The Deaus

#### Chief Marshal Bruce B. Parrott

The President of The Johns Hopkins University Alumni Association The University Chaplain The Reader, Doctoral Candidates The Honorary Degree Candidates The Provost of the University The Chairman of the Board of Trustees The President of the University





William R. Brody President of the University, presiding

PRELUDE *Trinmpbal Marcb* Hector Berlioz (1803–1869)

Two Ayres for Cornetts and Sagbntts John Adson (c. 1585–1640)

Intrada, Sarabande, and Bal from Blasende Mnsic Johann Pezel (1639-1694)

Gandeamns Igitur (trad.)

Canzona No. 2 Giovanni Gabrieli (c. 1553–1612)

PROCESSIONAL

The audience is requested to stand as the Processional moves into the area and to remain standing until after *The National Anthem*.

Festive Marches from *Belshazzar*, *Floridante*, *Ezio*, *Scipione*, *Saint Cecilia's Day*, *Rinaldo*, and *Judas Maccabaens* George Frideric Handel (1685–1759)

#### THE PRESIDENT'S PROCESSION

*Fanfare* Walter Piston (1894–1976)

*Grand Intrada* from *Alceste* George Frideric Handel (1685–1759)

#### INVOCATION

Sharon M. K. Kugler University Chaplain

The National Anthem of the United States of America Sung by Jennifer J. Hobbs, 2004 Graduate

#### GREETINGS

Raymond A. "Chip" Mason Chairman of the Board of Trustees

#### GREETINGS

Joseph R. Reynolds President of The Johns Hopkins Almmni Association

#### PRESENTATION OF NEW MEMBERS OF THE

SOCIETY OF SCHOLARS

Lukas P. Baumgartner Vann Bennett Douglas F. Covey J. Richard Gaintner Pascal J. Goldschmidt David S. Guzick Steven A. Leibel R. John Leigh Sverre O. Lie Nubia Muñoz Suzanne Ostrand-Rosenberg Alan Pestronk John Milton Peters Andrew Weiland Garen J. Wintemute

PRESENTED BY Steven Knapp Provost and Senior Vice President for Academic Affairs

CONFERRING OF HONORARY DEGREES William H. "Bill" Cosby Jr.\* The Honorable Ruth Bader Ginsburg J.G.A. Pocock Hamilton O. Smith

\*to be presented at The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering Undergradnate Diploma Ceremony this afternoon

#### ADDRESS

William R. Brody President of the University

#### MUSICAL INTERLUDE

Anbade Elam Sprenkle (b. 1948) Commissioned by the International Astronomical Union, Baltimore Convention, 1988 The Festival Brass, Elam Sprenkle conducting

### CONFERRING OF DEGREES ON CANDIDATES

Bachelors of Science in Applied Mathematics and Statistics Bachelors of Science in Biomedical Engineering Bachelors of Science in Chemical Engineering Bachelors of Science in Civil Engineering Bachelors of Science in Computer Engineering Bachelors of Science in Computer Science Bachelors of Science in Electrical Engineering Bachelors of Science in Engineering Mechanics Bachelors of Science in Engineering Science Bachelors of Science in Materials Science and Engineering Bachelors of Science in Mathematical Sciences and Engineering Bachelors of Science in Mechanical Engineering Bachelor of Arts Bachelors of Arts in Biomedical Engineering Bachelors of Arts in Computer Science Bachelors of Arts in Geography Bachelors of Arts in Applied Mathematics and Statistics Bachelors of Electrical Engineering Bachelors of Mechanical Engineering PRESENTED BY Andrew S. Douglas Interim Dean, The G.W.C. Whiting School of Engineering

Bachelors of Science

PRESENTED BY Martha N. Hill Dean, The School of Nursing

Undergradnate Certificates Bachelors of Science Bachelors of Liberal Arts Gradnate Certificates in Business Gradnate Certificates in Education

PRESENTED BY Ralph Fessler Dean, The School of Professional Studies in Business and Education

> Masters of Science Masters of Business Administration Masters of Arts in Teaching Post-Master's Certificates in Business Post-Master's Certificates in Education Certificates of Advanced Graduate Study

PRESENTED BY Ralph Fessler Dean, The School of Professional Studies in Business and Education

Masters of Science in Nursing Masters of Science in Nursing/Masters of Business Administration Masters of Science in Nursing/Masters of Public Health

> PRESENTED BY Martha N. Hill Dean, The School of Nursing

912011111

Bachelors of Science in Physics Bachelors of Arts PRESENTED BY Daniel H. Weiss James B. Knapp Dean The Zanvyl Krieger School of Arts and Sciences

Bachelors of Science in Molecular and Cellular Biology

Performers Certificates Bacbelors of Music PRESENTED BY Robert Sirota Director, The Peabody Institute

3

Graduate Performance Diplomas Masters of Music Masters of Arts PRESENTED BY Robert Sirota Director, The Peabody Institute

Masters of Science Masters of Health Science Masters of Public Health

PRESENTED BY Alfred Sommer Dean, The Bloomberg School of Public Health

Masters of International Public Policy Masters of Arts in International Affairs Masters of Arts PRESENTED BY

Jessica P. Einhorn Dean, The Paul H. Nitze School of Advanced International Studies

Masters of Arts

PRESENTED BY Edward D. Miller Frances Watt Baker and Lenox D. Baker Jr. Dean of the Medical Faculty Graduate Certificates Certificates of Continuing Eugineering Studies Masters of Chemical Engineering Masters of Civil Engineering Masters of Environmental Engineering Masters of Mechanical Engineering Masters of Science Post-Master's Advanced Certificates Masters of Science in Engineering PRESENTED BY

Andrew S. Douglas Interim Dean, The G.W.C. Whiting School of Engineering

Certificates in Biotechnology Enterprise Masters of Arts Masters of Science Masters of Science in Biotechnology Masters of Arts in Communication in Coutemporary Society Masters of Arts in Developmental Psychology Masters of Science in Developmental Psychology Masters of Arts in Applied Economics Masters of Science in Environmental Sciences and Policy Masters of Arts in Government Masters of Liberal Arts Masters of Arts in Writing

> PRESENTED BY Daniel H. Weiss James B. Knapp Deau The Zanvyl Krieger School of Arts and Sciences

#### Doctors of Education

PRESENTED BY Ralph Fessler Dean, The School of Professional Studies in Business and Education Artist Diplomas Doctors of Musical Arts

Ster Willing Strange Strange

PRESENTED BY Robert Sirota Director, The Peabody Institute

Doctors of Nursing Science Doctors of Philosophy

PRESENTED BY Martha N. Hill Dean, The School of Nursing

Doctors of Science Doctors of Public Health Doctors of Philosophy

PRESENTED BY Alfred Sommer Dean, The Bloomberg School of Public Health

Doctors of Philosophy

PRESENTED BY Jessica P. Einhorn Deau, The Paul H. Nitze School of Advanced International Studies

> Doctors of Medicine Doctors of Philosophy

PRESENTED BY Edward D. Miller Frances Watt Baker and Leuox D. Baker Jr. Dean of the Medical Faculty

Doctors of Philosophy

PRESENTED BY Andrew S. Douglas Interim Dean, The G.W.C. Whiting School of Engineering

Doctors of Philosophy

PRESENTED BY Daniel H. Weiss James B. Knapp Deau The Zanvyl Krieger School of Arts and Sciences

RECESSIONAL March C.P.E. Bach (1714–1788) March from *Le Nozze di Figaro* Wolfgang Amadeus Mozart (1756–1791)

The audience is requested to remain standing until the principals, officials, members of the faculties, and the graduates have left the area.

> Music bas been provided by The Festival Brass, Ellery Woodworth, Conductor.

> > 2 2 2 1 10/1/



### DIVISIONAL DIPLOMA CEREMONIES INFORMATION

The Paul H. Nitze School of Advanced International Studies Diploma Ceremony is at 3 p.m. this afternoon at Constitution Hall, 18th and D Streets NW, Washington, DC. U.S. Permanent Representative to NATO Ambassador R. Nicholas Burns (SAIS '80) is the speaker. A reception at the Nitze School follows the ceremony.

The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering Undergraduate Diploma Ceremony is at 1:45 p.m. this afternoon on Homewood Field. Actor and comedian William H. "Bill" Cosby Jr. is the speaker.

The Zanvyl Krieger School of Arts and Sciences Master's Diploma Ceremony is at 5:30 p.m. on Friday, May 21, on Homewood Field. James B. Knapp Dean Daniel H. Weiss is the speaker. A reception follows immediately in the Robert Scott Gymnasium, Ralph S. O'Connor Recreation Center. Ph.D. recipients from Arts and Sciences and their guests are also welcome.

The School of Medicine Diploma Ceremony is at 7:30 p.m. this evening at Meyerhoff Symphony Hall at Cathedral and Preston Streets in Baltimore. The Alfred Blalock University Distinguished Service Professor of Surgery Dr. John Cameron is the speaker.

The School of Nursing Diploma Ceremony is at 1:45 p.m. this afternoon in Shriver Hall Auditorium, Homewood campus. Dr. May L. Wynkle, dean, Frances Payne Bolton School of Nursing, Case Western Reserve University, is the speaker.

The Peabody Institute Diploma Ceremony is at 8 p.m. this evening in Friedberg Hall at the Institute. Composer John Corigliano, who will receive the George Peabody Medal for Outstanding Contributions to Music in America, is the speaker.

The School of Professional Studies in Business and Education Undergraduate and Graduate Diploma Ceremony is at 7:30 p.m. this evening on Homewood Field. WYPR-FM's Marc Steiner is the speaker. A reception follows in the Ralph S. O'Connor Recreation Center immediately after the ceremony.

The Bloomberg School of Public Health Diploma Ceremony was held yesterday afternoon.

The G.W.C. Whiting School of Engineering Graduate Diploma Ceremony was held yesterday evening.



### THE JOHNS HOPKINS SOCIETY OF SCHOLARS

The Society of Scholars was created on the recommendation of former president Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The society—the first of its kind in the nation—inducts former postdoctoral fellows and junior or visiting faculty at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences or in the humanities and for whom at least five years have elapsed since their last Hopkins affiliation. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the scholars from the candidates nominated by the academic divisions that have programs for postdoctoral fellows. The scholars are invested at the time of Commencement, Commemoration Day, or a similar occasion. At that time they are presented with a diploma and a medallion on a black and gold ribbon to be worn with their academic robe.

There are currently 460 members in the Johns Hopkins Society of Scholars.

The following listing of the Society of Scholars members elected in 2004 is accompanied by a short description of their accomplishments at the time of their election to the society.

### Lukas P. Baumgartner Lausanne, Switzerland

Known for multidisciplinary work, Lukas Baumgartner has developed a new way to apply transport theory to problems associated with mineral crystallization and rock alteration. His findings have been used to understand the development of mountain belts, such as the Alps and the Andes, and the formation of sedimentary, metamorphic and igneous rocks. He is currently director of the Institute of Mineralogy and Petrology at the University of Lausanne in Switzerland. Awards recognizing his outstanding achievements include the Paul Niggli Medal of the Swiss Mineralogical Petrological Society and the Mineralogical Society of America Award.

#### Vann Bennett

#### Durham, North Carolina

Best known for his discovery and characterization of the ankyrins, Dr. Bennett has markedly advanced knowledge of how membrane transport proteins are precisely localized in cell membrane domains. This work has brought Dr. Bennett wide recognition as a basic cell biologist and as a pioneer elucidating the molecular basis of human diseases. His work most recently pinpointed the genetic mechanism for an inherited form of cardiac Long QT syndrome, a deadly heart problem that strikes seemingly healthy young people. Dr. Bennett is currently the James B. Duke Professor of biology, biochemistry and neuroscience at Duke University Medical Center.

### Douglas F. Covey St. Louis, Missouri

Dr. Covey has made several significant contributions to the field of pharmacology. By synthesizing one of the first potent and selective aromatase inhibitors for applications in breast cancer, he laid the foundation for the development of a class of clinically valuable therapeutics for the condition. He has also designed and synthesized a variety of steroids that have demonstrated great utility in the functional analysis of interactions between the nervous system and the endocrine glands, as well as the pathways of cell signaling.

### J. Richard Gaintner Gainesville, Florida

Dr. Gaintner's has been a truly remarkable career. He has been instrumental in the shaping of academic medical centers in this country. His administrative skill has benefited a number of medical institutions. Following his departure from the University of Connecticut, he returned to Johns Hopkins, where he strengthened the relationship between the Hospital and the School of Medicine. Two years later, he joined Albany Medical College as president and CEO, then moved on to Harvard-affiliated Deaconess Hospital in Boston, where he again served as president and CEO. After serving as CEO of Shands Hospital at the University of Florida for four years, he went into a brief retirement but returned to the medical field as executive vice president for health sciences at Georgetown. Illness forced him to end his illustrious career in 2002.

#### Pascal J. Goldschmidt Durbam, North Carolina

Dr. Goldschmidt is widely considered one of the leading physician-scientists in the nation in the field of cardiovascular medicine. As a researcher, he discovered a now well-recognized platelet receptor polymorphism, a significant factor in heart attacks. He also uncovered several cellular pathways that cause human disease. He has also served as director of the Henry Ciccarone Center for the Prevention of Heart Disease, the Thrombosis Center and the Bernard Vascular Biology Laboratory. After winning numerous prestigious awards, Goldschmidt was recruited to direct Ohio State University's Heart and Lung Institute. In 2000, he was recruited to head the internationally recognized cardiology program at Duke University. In 2003, he was selected to become chairman of the Duke Department of Medicine

#### David S. Guzick

#### Rochester, New York

Dr. Guzick, a national and international leader in the field of reproductive endocrinology, has been internationally recognized as an expert in the epidemiology, pathogenesis and management of endometriosis and polycystic ovary syndrome among infertile women. He is currently both the principal investigator of the K12 Women's Reproductive Health Research Career Center and dean of the School of Medicine and Dentistry at the University of Rochester Medical Center. He has published more than 100 articles, demonstrating his thorough expertise in the fields of obstetrics and gynecology, infertility and reproductive endocrinology.

#### Steven A. Leibel New York, New York

Dr. Leibel has been a pioneer in the development and clinical application of new radiation therapy techniques in the treatment of malignant brain tumors, as well as other pioneering clinical treatments. His efforts have transformed the way that radiation is used to manage patients with prostate cancer. In addition to his research breakthroughs, Dr. Leibel has trained some of the best young leaders in the field. His many honors include winning the 2002 Gold Medal of the American Society for Therapeutic Radiology and Oncology, the society's highest award. He is currently chair of the Department of Radiation Oncology at Memorial-Sloan Kettering Cancer Center.

### R. John Leigh Cleveland, Ohio

John Leigh has built an outstanding program in the study of eye movements at Case Western Reserve University in the Neurology and Biomedical Engineering departments. He has inquired deeply into the relationship between vision and balance. He has written the definitive textbook on the neurology of eye movements. Clinical applications of Dr. Leigh's research have been published in *Neurology* and *Ophthalmology* and the best basic science journals. He holds an endowed chair at Case Western Reserve and was named the Annual Visiting "Brain" Scholar at Imperial College, London, for 2003. His contributions span basic science, clinical science and clinical practice.

#### Sverre O. Lie

#### Oslo, Norway

Dr. Lie has had a long and distinguished career at the National Hospital of Norway, where he has been in the departments of Pediatrics and Pediatric Research since 1967. He has developed pioneering diagnoses and treatments for pediatric cancer and is the lead author on an 18-year study of the treatment of leukemia in children. In the late 1990s, he oversaw the design and construction of a modern children's hospital in Oslo. His honors include membership in the Norwegian Academy of Science, honorary fellowship in the Royal College of Pediatrics and Child Health in Great Britain and a knighthood (Order of St. Olav) bestowed by the king of Norway.

#### Nubia Muñoz Lyon, France

Dr. Muñoz' work at the International Agency for Research on Cancer in Lyon, France, and with teams across the world led to establishing the relationship between the human papillomavirus and cervical cancers. This recognition of a viral cause of cervical cancer has led to the development of vaccines that would prevent these infections and that hold promise for the control and possible elimination of this cancer.

### Suzanne Ostrand-Rosenberg Baltimore, Maryland

Dr. Ostrand-Rosenberg's career has been a model of scholarship. She has achieved a fruitful balance between excellence in research and clarity and quality in teaching. She has made major contributions to the direction of tumor immunology, and has developed relevant animal models for translating her research into the clinical area. In addition, she has made a major commitment to teaching and mentoring students in her field. Dr. Ostrand-Rosenberg presently holds the Robert and Jane Meyerhoff Chair of Biochemistry at the University of Maryland, Baltimore County.

#### Alan Pestronk St. Louis, Missouri

Dr. Pestronk's research involves a wide variety of autoimmune and genetic diseases of nerves and muscles. His findings have led to improved diagnosis as well as treatment of these diseases. At Johns Hopkins, Dr. Pestronk collaborated closely with Dr. Daniel B. Drachman and Dr. John Griffin. He played a key role in elucidating the best understood human autoimmune disease, myasthenia gravis. In addition, he studied factors that determined nerve regeneration. His work here shaped the course of his career, which focuses on the immunological basis of neurological disorders. A professor in the departments of Neurology and Pathology at Washington University in St. Louis School of Medicine, Dr. Pestronk also created the most widely used Internet textbook of Neurology, which is used by more than 2,000 people each day.

### John M. Peters Los Angeles, California

Since completing his medical internship at Johns Hopkins, Dr. Peters has dedicated nearly 40 years to studying the effects of the environment on respiratory health, from the effects of second-hand smoke to the causes of childhood leukemia. Most recently, he led the Children's Health Study, measuring the impact of air pollution on thousands of children in southern California. The results have led to new regulations for air quality. Dr. Peters is director of the Division of Occupational and Environmental Health at the University of Southern California School of Medicine.

#### Andrew Weiland New York, New York

Dr. Weiland is an upper extremity surgeon who has made major contributions in the management of patients with traumatic and reconstructive problems. He is especially known for his work in microvascular surgery. His work has significantly improved the care of patients with traumatic amputations and difficult reconstructive problems. In addition, he is a talented educator who has mentored numerous individuals. In addition to clinical and teaching contributions, he has been a superb leader, having made major impacts in many societies, including the American Orthopaedic Association, the American Board of Orthopaedic Surgery and the American Hand Society.

### Garen J. Wintemute Sacramento, California

Dr. Wintemute is recognized as one of the nation's foremost scholars addressing violence as a public health problem. *Time* magazine named him a Hero in Medicine, and he is the recipient of many awards from professional and academic societies. In addition to being director of the Violence Prevention Research Program at the University of California, Davis, he is a practicing emergency physician and has served as a consultant for the World Health Organization, U.S. Centers for Disease Control and Prevention and the American Red Cross.

### HONORARY DEGREE CITATIONS

#### Citation read by Daniel H. Weiss In presenting WILLIAM H. COSBY JR. For the Degree of Doctor of Humane Letters

With reality TV dominating prime time, we long for the days when your brand of entertainment ruled the tube.

You first appeared on the *Tonight Show* in 1963, after years spent perfecting your act in front of your first fan, your mother. Soon you were entertaining the rest of us, too, with shows like *I Spy* and the Saturday cartoon *Fat Albert and the Cosby Kids*. There were comedy albums, films, TV specials, and best-sellers. Yours is a particularly keen and compassionate humor, full of riffs on family life and tall tales of grade school pals like Old Weird Harold.

Your gift lies not only in making us laugh, but also in making us feel like we are in on the fun. That was the case with *The Cosby Show*, for which you are best known by the class of 2004. Our graduates grew up with Cliff Huxtable's kids. As our student newspaper put it, they were hooked on the show because they wanted to be a part of the Huxtable family.

You are, however, far more than an extraordinary entertainer. You are a social force, a ground breaker. Both on stage and off, you emphasize achievement and the value of positive role models. You stress that which unites us rather than that which drives us apart. You are untiring in your advocacy for education at all levels, preschool through postgraduate. You are a generous supporter of predominantly black colleges and of many social service and civil rights organizations.

William H. Cosby Jr., entertainer, family man and ardent champion of a better society, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

#### Citation read by Jessica P. Einborn In presenting RUTH BADER GINSBURG For the Degree of Doctor of Humane Letters

As a young mother, wife, and recent graduate of Columbia Law School, where you tied for first in your class, you came face to face with the 1950s reality of the status of women in America: No law firm would hire you.

That personal experience underscored for you the importance of transforming the widespread attitudes and laws that allowed insidious discrimination against women and minorities. You recognized that deep-seated beliefs about gender roles would not disappear overnight, and that patience and tenacity would be required. In fact, your efforts to overcome gender bias spanned many years. You argued a half-dozen landmark cases before the Supreme Court of the United States, establishing the unconstitutionality of sex-based discrimination. Your commitment, skill, and hard work opened the doors of equal opportunity.

You have also been an outstanding educator and, even before you were appointed to the Supreme Court in 1993, a distinguished jurist. You are only the second woman to serve on the high court, and your tenure there has been widely noted for its independence and integrity.

Ruth Bader Ginsburg, in recognition of your extraordinary contributions to American law, and to the Constitution and the rights it protects, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

#### Citation read by Daniel H. Weiss In presenting J.G.A. POCOCK For the Degree of Doctor of Humane Letters

You are one of the most important historians of the past several decades. Your many influential works have opened new pathways that other historians have eagerly followed; you also have inspired the work of countless philosophers and political scientists.

Upon your retirement from Johns Hopkins a decade ago, it was said of you, "He is probably one of the most famous members of our faculty." Even more important, it was said, "Professor Pocock has vastly contributed to the sophistication and depth of historical studies, and he has trained an entire generation of scholars."

Your interests span great chronological and geographical distances, from classical Greece and Rome to early modern Europe, as well as to your native New Zealand and the United States. Thematically, your inquiries are every bit as diverse, covering custom, law, and constitution; political and theological thought; republicanism and corruption; and even the history of history itself.

And you have transformed our understanding of every subject you have touched. It has been said, for instance, that you gave us "a new way to understand the thoughts that were alive in the minds of the men who founded the American republic more than 200 years ago."

John Greville Agard Pocock, friend, colleague, and Harry C. Black Chair of History Emeritus, in recognition of your vast and influential scholarship and teaching, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

#### Citation read by Edward D. Miller Jr. In presenting HAMILTON O. SMITH For the Degree of Doctor of Humane Letters

During a remarkable life in pursuit of knowledge, you have ignited a revolution in genetic engineering and played a key role in assembling the biological blueprint for human life.

Your curiosity and keen intellect were apparent at an early age. Growing up in a Midwestern university community, you and your older brother spent your paper-route earnings to stock a basement lab filled with test tubes, beakers, and radios.

You earned a medical degree at Johns Hopkins, then went elsewhere, but your fascination with DNA and the link between genes and disease brought you back in 1967. In your laboratory, you made the stunning discovery of restriction enzymes—molecular "scissors" that could cut and manipulate DNA. That unlocked the doors of modern molecular biology, releasing a flood of research into new ways to prevent and treat illness. For this, you, along with Johns Hopkins colleague Daniel Nathans and Swiss scientist Werner Arber, received the 1978 Nobel Prize in medicine.

Your curiosity pushed you to explore further scientific frontiers, including the use of computers to help decode the genetic foundation of living organisms. You played a leading role in sequencing the human genome, a landmark project completed, appropriately enough, in the year 2000.

Notably, you have scaled these career heights and endeared yourself to colleagues with a quiet, selfeffacing personality.

Hamilton O. Smith, friend, alumnus, and colleague, for your distinguished lifelong contributions to science and biomedical research, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

### THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Bruce B. Parrott, was first used at the 1954 Commemoration Day Ceremony. Eight symbols are hand-wrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

### THE PRESIDENTIAL INSIGNIA

University President William R. Brody is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of Johns Hopkins University Presidents are engraved on the faces of the links. On the reverse are engraved the names and dates of office of each President. Blank links for future use are included. The University Seal completes the design.

### ACADEMIC GARB

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round but has changed to the varieties we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms placed through the slits at the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper sleeve. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one-half feet long. The Doctor's hood is four feet long, of fuller shape, and rounded at the base. The hood is bordered with velvet, the color of which indicates the field of study in which the Bachelor's, Master's, or Doctor's degree was earned:

Dark blue—Philosophy Light blue—Education Green—Medicine Salmon pink—Public Health Orange—Engineering Gold-yellow—Science White—Arts and Letters Pink—Music Purple—Law Apricot—Nursing Tan—Business The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold-*Johns Hopkins University* Light blue, white—Columbia University Dark blue—Yale University Light blue, white-University of North Carolina Gold, blue-University of California at Berkeley Purple-New York University Bright red-University of Wisconsin at Madison Maroon—University of Chicago Red, white—Cornell University Cardinal-Stanford University Cardinal red and gray-Massachusetts Institute of Technology Gold, blue-University of Michigan Blue, gold—University of Rochester Brown, red—Brown University Blue, white-Howard University School of Divinity Red, white-Indiana University Red, black-Northeastern University

Red, gray-Ohio State University Orange, black-Princeton University Red—Rutgers University White, red—*Temple University* Gold, blue-University of California at Los Angeles Light blue, navy blue-Union Institute Gold, blue-United States International University Gold, gray-University of Colorado Orange, white-University of Manchester Red—University of Maryland Silver, red—University of New Mexico Dark red, white-University of Oklahoma Red, blue-University of Pennsylvania Black, red, yellow-University of Psaderborn Blue, gold-University of Toledo Gold, black-Vanderbilt University Gold-West Virginia University

### The University Motto

Veritas vos liberabit. The truth shall make you free. -St. John 8:32

### AWARDS

Schools of Arts and Sciences, Engineering, Nursing, Medicine and The Peabody \* Conservatory of Music

LOUIS SUDLER PRIZE IN THE ARTS For excellence in the creative arts Jointly awarded to *Claire Jeong Julia Wn* 

The Zanvyl Krieger School of Arts and Sciences and The G.W.C. Whiting School of Engineering

THE ABELL FOUNDATION AWARD IN URBAN POLICY Presented annually to the Johns Hopkins student who authors the most compelling paper on a pressing problem facing the city of Baltimore. Awarded to *Rachel Tobie Brash* 

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS AWARD for Scholastic Achievement (AIChE) Awarded to *Stephanie Piecewicz* 

AMERICAN SOCIETY OF MECHANICAL ENGINEERING AWARD In recognition of outstanding efforts and accomplishments on behalf of the J.H.U. A.S.M.E. Student Chapter Awarded to *Stephen Edwards* 

APPLIED MATHEMATICS AND STATISTICS AWARD for Achievement Jointly awarded to *Ebba Kristina Boude Grant F. Roche Thomas Sharley*  APPLIED MATHEMATICS AND STATISTICS AWARD FOR EXCELLENCE IN TEACHING For outstanding teaching performance by a student in the Applied Mathematics and Statistics Department during the year 2003–2004 Jointly awarded to *Beryl Elizabeth Castello Takebiko Nakama* 

ROBERTO R. ARELLANO AWARD For excellence in writing by a Writing Seminars undergraduate Awarded to *Loren Matthew Dunn* 

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS For demonstrated excellence in a field of mass communications Jointly awarded to *Aron Benjamiu Davidowitz Shruthi Mathur Eric A. Ridge* 

BIOMEDICAL ENGINEERING DISTINGUISHED SERVICE AWARD For outstanding service to the academic community Jointly awarded to Shikha Mishra Anand Veeravaga

JAMES F. BELL AWARD Presented by K.T. Ramesh for outstanding undergraduate research and scholarly achievement in Mechanical Engineering Awarded to *Landou Shawn Uuniuayar* 

LUCIEN BRUSH AWARD FOR EXCELLENCE IN ENVIRONMENTAL ENGINEERING For outstanding academic achievement in Environmental Engineering by a graduating senior Awarded to *Kevin Audrew Philpy*  MARY FARRELL CAMERER AWARD For excellence in writing by a Writing Seminars undergraduate Awarded to *Emily Elizabeth Chow* 

W.P. CAREY PROGRAM IN ENTREPRENEURSHIP AND MANAGEMENT FACULTY TEACHING EXCELLENCE AWARD Awarded to Professor Lawrence Aronhime

W.P. CAREY PROGRAM IN ENTREPRENEURSHIP AND MANAGEMENT EXCELLENT TEACHING ASSISTANT AWARD Awarded to Matthew Robert McKee

EUGENIO AND PATRICIA CASTILLO AWARD To the best first- or secondyear student in Economics Awarded to *Eric Millis* 

CHEMICAL AND BIOMOLECULAR ENGINEERING UNDERGRADUATE RESEARCH AWARD For demonstrated contributions to research in Chemical and Biomolecular Engineering Jointly awarded to *Kelly Jeunifer Davis Michael Panl Gillmeister Stephanie (Hee-Kyoug) Kim* 

CIVIL ENGINEERING AWARD For outstanding achievement by a senior in Civil Engineering Awarded to *Audrew Thomas Myers* 

JAMES S. COLEMAN AWARD This award was established by the Department of Sociology in 1994, in honor of Dr. James S. Coleman, the first chair of the department. The award is for outstanding academic achievement by a senior majoring in sociology and is presented at graduation Awarded to David Ray Crandall OUTSTANDING DOUBLE MAJOR AWARD FROM THE DEPARTMENT OF COMPUTER SCIENCE For outstanding achievement in combining diverse studies with computer science Jointly awarded to Edmaud Kim Dorsey Audrew Eugene Kim

OUTSTANDING SENIOR AWARD IN COMPUTER SCIENCE To a senior for a demonstrated record of academic excellence, leadership, and service in Computer Science Awarded to *James Ray Zarfoss III* 

OUTSTANDING MINOR AWARD FROM THE DEPARTMENT OF COMPUTER SCIENCE For outstanding achievement in combining diverse studies with computer science Awarded to Dauilo Šćepanović

SPECIAL SERVICE AND CONTRIBUTION AWARD IN COMPUTER SCIENCE For outstanding work to benefit Johns Hopkins University and the community Awarded to *Nathaniel Grant Duca* 

OUTSTANDING TEACHING AWARD FROM THE DEPARTMENT OF COMPUTER SCIENCE For outstanding performance in assisting with the teaching of Computer Science courses Awarded to Breno Fouseca De Medeiros

PAUL A. C. COOK AWARD To the best all-around Chemical and Biomolecular Engineering student Awarded to *Brian Simpson*  ROBERT GEORGE GERSTMYER AWARD For outstanding undergraduate achievement in Mechanical Engineering Jointly awarded to *Alexander Forman* David Garber Golda Yetta Katzoff

G. STANLEY HALL PRIZE For outstanding achievement by an undergraduate in Psychology Awarded to *John Fischer* 

BRUCE HAMILTON AWARD To the graduate student in the Department of Economics who has exhibited the best performance in research workshops Awarded to *Nicholas Hill* 

MAX HOCHSCHILD FUND The prize is awarded annually to the undergraduate student in Economics who has shown great promise and proficiency in this field. Awarded to *Chang Eun Jung* 

JACOB H. HOLLANDER PRIZE For excellence in writing by a Writing Seminars undergraduate Awarded to *Aaron Michael Shulman* 

THE THREE ARTS CLUB OF HOMELAND AWARD For excellence in writing by a Writing Seminars undergraduate Awarded to *Natalie Rae Shapero* 

WILLIAM H. HUGGINS AWARD For outstanding service and academic achievement by a senior in Electrical and Computer Engineering Jointly awarded to *Russell P Hayden II Kevin T Knott Brett L. Kutscher*  RICHARD J. JOHNS AWARD For outstanding academic achievement in Biomedical Engineering Jointly awarded to Nicholas Liv Chang Cher John Issa Xiaoying Carol Koh Danilo Šćepanović Jein Nern Tay Hsiang-Jer Tseng

DONALD E. KERR MEMORIAL MEDAL To the outstanding undergraduate major in Physics and Astronomy Jointly awarded to Sondra L. Hellstrom Heather Ann Knutson Paul Samuel Nerenberg

THE MARTIN AND MARY KILPATRICK PRIZE For outstanding achievement in Chemistry Jointly awarded to *Rebecca A. Berlow Zachary A. Gurard-Levin* 

THE EUGENE LEAKE AWARD For outstanding achievement in Homewood Art Workshops Jointly awarded to Patricia H. Chan Cassandra Rae Duffy Alexandra Kate Marriette Ferwick Amanda C. Johnson

DANNY LEE AWARD For outstanding undergraduate research in Biomedical Sciences Awarded to *Derek Yang* 

ERNEST M. MARKS AWARD In recognition of excellence in instruction and research in Chemistry Jointly awarded to *Vivek Karambelkar Dunja Radisic*  MATERIALS SCIENCE AND ENGINEERING AWARD For outstanding academic achievement by a graduating senior in Materials Science and Engineering Awarded to *Jessica E. Bickel* 

WILLIAM D. MCELROY AWARD For meritorious research conducted by an undergraduate in the Biological Sciences Awarded to *Amit Navin Vora* 

MECHANICAL ENGINEERING SPECIAL PROJECT PRIZE To be presented by Professor Cila Herman for outstanding undergraduate group project Jointly awarded to *Team STILLMix: Henry Mowry Cook III Sara Brooke Marten Michael Brian Sharma Yo-Rhin Rhim* 

TEACHING ASSISTANT AWARD FROM THE DEPARTMENT OF MECHANICAL ENGINEERING Awarded to *Daniel Gianola* 

EMILY AND THOMAS MEREN SCHOLAR AWARD Established in 1998 in support of undergraduate students pursuing a BA/MS degree in Neuroscience Jointly awarded to *Christopher Walden Bowers* Jeffrey Chang Inga Gurevich Paul Jin Han Dan Isbihara Quan Lan Jasmine Lew Ajay Mantha Ting Sum Lydia Yee

DISTINGUISHED MILITARY GRADUATE For displaying outstanding qualities of leadership, high moral character, noteworthy academic achievement, and exceptional attitude for military service Jointly awarded to *Nicholas Paul Java* Evan T. Perperis Rimas Antanas Radzius

GEORGE C. MARSHALL LEADERSHIP AWARD Awarded to the most outstanding graduating ROTC cadet who has demonstrated those leadership and scholastic qualities that epitomize the career of General George C. Marshall Awarded to *Nicbolas Paul Java* 

PRESIDENT'S SABER The President's Saber is awarded to the ROTC cadet who has made the most significant contribution to the Johns Hopkins University ROTC battalion, and reflects those leadership characteristics required of an Army Officer Awarded to Nicholas Paul Java

JHU PRESIDENT'S TROPHY The President'S Trophy is awarded to the ROTC cadet who has made the most significant contribution to promoting the ROTC program at Johns Hopkins University. Awarded to Andrew Hiram Woods Woodward

U.S. ARMY OFFICER COMMISSION The following students earned a United States Army commission through successful completion of the Army Reserve Officers Training Corps program Jointly awarded to Nicholas Paul Java Laura L. Olzacki Evan T. Perperis Rimas Antanas Radzius Andrew Hiram Woods Woodward Chong K. Yi CHARLES A MILLER AWARD To be presented by Charles A. Miller for outstanding undergraduate achievement Awarded to *Henry Mowry Cook III* 

MICHAEL J. MUUSS RESEARCH AWARD From the Computer Science Department for the best application of research to practice Awarded to *Eric Alan Goldlust* 

NADDOR PRIZE Jointly awarded to Weina Hon Mau-Kwong George Lam

DAVID S. OLTON AWARD For outstanding achievement in independent research by an undergraduate in Psychology Awarded to *Man-Wing Joanne Tsui* 

ROBERT B. POND SR. ACHIEVEMENT AWARD Awarded to the graduating senior in the Department of Materials Science who best exemplifies Robert Ponds' commitment to scholarly and humane values. Awarded to Daniel J. MacNeil

PRESIDENT'S COMMENDATION FOR ACHIEVEMENT IN THE ARTS For outstanding contributions to the arts in the Johns Hopkins community by a graduating senior Awarded to *Annelise Prnitt* 

THE CURT P. RICHTER AWARD IN BEHAVIORAL BIOLOGY RESEARCH In recognition of outstanding achievement in the David S. Olton Behavioral Biology Program Awarded to *Janelle Marie Burke*  THE SARAH AND ADOLPH ROSEMAN ACHIEVEMENT AWARD In recognition of outstanding accomplishment in Chemistry Awarded to *Anthony Stapon* 

SENIOR DESIGN ENGINEERING AWARD In recognition of outstanding contributions to the design and conduct of an independent research project in the Department of Materials Science and Engineering. Awarded to *Sn Jin Kim* 

GERARD H. SCHLIMM AWARD For exceptional accomplishment by a student in Civil Engineering Awarded to *Daniel Leone* 

SPECIAL SERVICE AWARD FROM THE DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING Awarded to *Nithin Gottam* 

JULIAN C. STANLEY AWARD For the undergraduate Psychology major who most closely approximates Dr. Stanley's personal and professional standards of excellence Awarded to *Brandon David Zonker* 

DOLORES AUBREY SULLIVAN AWARD IN PUBLIC POLICY Presented annually to the Master of Arts in Public Policy student who best exemplifies Dee's indomitable spirit, unfailing dedication to excellence, and the Institute's mission to bring the best information to bear on public policy problems. Awarded to *Caron Melame Gremont* 

J.J. SYLVESTER AWARD For outstanding achievement by a senior in Mathematics Awarded to *Micbael Walsb*  ROBERT W. TUCKER AWARD For the most distinguished senior thesis in International Studies Awarded to *Rebecca Marie Nelson* 

JULIUS TURNER PRIZE For the most distinguished senior thesis in Political Science Jointly awarded to *Rebecca Bolger Andrew Sammel Kelly* 

John Boswell Whitehead Award

For outstanding achievements by an undergraduate in the Department of Electrical and Computer Engineering Jointly awarded to *Russell P. Hayden II Kevin T. Knott Brett L. Kntscher* 

LOY WILKINSON AWARD For demonstrated record of academic excellence, leadership, and service in Chemical and Biomolecular Engineering by a graduating senior Awarded to *Kelly Davis* 

### The Peabody Conservatory of Music

AMERICAN BASSOON COMPANY PRIZE in woodwinds: bassoon Awarded to Andrea Loren Sematoske

CLINTON LEE ARROWOOD PRIZE in woodwinds: flute Awarded to *Anna Rakoczy* 

MARIAN B. AND SAMUEL BERNSTEIN MEMORIAL PRIZE in opera Awarded to *Jessica Hanel* 

MARTHA AND WM. BILL MEMORIAL PRIZF in woodwinds: clarinet Awarded to Nicholas Mark Homenda THE GEORGE CASTELLE MEMORIAL AWARD in voice Jointly awarded to Natalie Rose Conte Jennifer J. Hobbs Robert Maril Thomas J. McNichols William Farrar Strum Andrea Wiltzins

DOROTHY L. DECOURT PRIZE in organ Jointly awarded to *Panl James Carroll* Simgho Paik

ANTTA ERDMAN AWARD in opera Awarded to *M. Hilary Ryon* 

PAULINE FAVIN MEMORIAL AWARD in piano Jointly awarded to Daniela Catherine Bracchi Kristin Nicole Chadderton Rachana Vajjbala

SIDNEY FRIEDBERG PRIZE in chamber music Awarded to *Nicholas Mark Homenda* 

#### RICHARD FRANKO GOLDMAN PRIZE in performance Jointly awarded to *Kimberly Benninger* Danielle Lonise Crumb Scott Power Elliott Laura Martin Noab

LILLIAN GUTMAN MEMORIAL PRIZE in piano Awarded to *Benjamin Jinsoo Kim* 

LYNN TAYLOR HEBDEN PRIZF in performance Awarded to *Christopher Eric Hamlen* 

SIDNEY JENSEN MEMORIAL PRIZE in woodwinds: clarinet Awarded to *Ira Matthew Berman* 

JOSEF KASPAR AWARD in strings: violin Awarded to *Hae-Jeong Han*  ROSE MARIE MILLHOLLAND AWARD in piano Awarded to *Jennifer Lynn Jackson* 

OLGA VON HARTZ OWENS MEMORIAL PRIZE in strings Awarded to *Christopher Eric Hamlen* 

HAROLD RANDOLPH PRIZE in performance Awarded to *Michael Nathaniel Boateng* 

RANDOLPH S. ROTHSCHILD Award in composition Awarded to *Panl Edward Nelson* 

ALICE & LEARY TAYLOR PRIZE in performance Awarded to *Robert Cameron MacDonald* 

FRANCIS M. WENTZ TURNER MEMORIAL PRIZE in piano Awarded to *Snjung Sun* 

J.C. VAN HULSTEYN AWARD in strings: violin Jointly awarded to Anrelie S. Banziger John Henry Littlejohn Elizabeth Sarah Mahler Nikkos A. Pittas

ANNIE WENTZ PRIZE in voice Awarded to *Daniel Greene Seigel* 

GEORGE WOODHEAD PRIZE in voice, with emphasis on oratorio or church music Jointly awarded to *Elizabeth Ann Healy James Henry Seay III Nakia Sherrie Verner* 

#### The School of Nursing

ACADEMIC EXCELLENCE AWARD To a student whose academic performance has been judged to be outstanding Jointly awarded to Margaret Ann Carpino Sonja Hayden Emerson CHURCH HOME AND HOSPITAL NURSING ALUMNAE AWARD Recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science, and spirit of nursing Jointly awarded to *Rebecca Rnth Keltner Susan Renee Umstot* 

EMMA JONES BECKWITH CULLEN AWARD In recognition of the highest standards of nursing practice and executive ability Jointly awarded to *Jennifer Brie Rock* Angela Estella Wilkins

ELEANOR WADE CUSTER AWARD To a student who most successfully demonstrates initiative and creativity in improving the health of a community with sensitivity to one's fellow man. Jointly awarded to *Lindsay Marie Heberling Amy Elizabeth Maxted* 

BETTY CUTHBERT AWARD To a student who demonstrates outstanding commitment and service to nursing and the University Jointly awarded to *Margnerite L. Baty Tresa Kaur Dnsaj* 

SUE K. DONALDSON DISSERTATION AWARD For the outstanding PhD dissertation in the School of Nursing Awarded to *Wendy Patricia Blakely*  THE MARY AND GRAINGER MARBURG AWARD In recognition of a student who consistently exhibits outstanding clinical nursing expertise Jointly awarded to *Coartney Jill Edwards Jeanne Marie McCarter* 

JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD Recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind Jointly awarded to *Jennifer Anne Menbennett* Nyree Dawn van Maarseveen

JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD To a graduate student demonstrating expertise in professional nursing practice and patient-centered health care delivery Jointly awarded to *Allison Marie Mnrter Erica Faye Sonthworth Maryke Louise Van Leenwen Donna Helen Yannsz* 

LEADERSHIP AWARD To a graduate nursing student demonstrating outstanding leadership in the field of nursing Awarded to *Terri Jean Holloway-Petty* 

ROBERT G. MERRICK AWARD To a student demonstrating outstanding leadership in the field of nursing Jointly awarded to *Katherine Elizabeth Ernst Panl Michael Schwartz* 

RUTH DALE OGILBY AWARD In recognition of exceptional academic performance in the master's program Jointly awarded to *Holly Claire Calvert Shannon Rae Micheel Judith Morya Resick*  RESEARCH AWARD To a student demonstrating intellectual curiosity and creativity in nursing research Awarded to Megan Kelly O'Brien Gold

EDNA SCHOEN MEMORIAL AWARD To a student demonstrating excellence in clinical practice Jointly awarded to *Conrtney Lynn Anderson Monica Irene Shelley* 

SIGMA THETA TAU NU BETA CHAPTER AWARD To a graduate nursing student in recognition of superior academic achievement, creative scholarship, and research Jointly awarded to *Tracy Anne Agee Vinciya Pandian* 

SINAI NURSES' ALUMNAE ASSOCIATION OF SINAI HOSPITAL INC. To a student who exhibits enthusiasm, compassion, and a positive approach to problem solving in nursing Jointly awarded to *Sophia Licbenstein-Hill Maureen Patricia McGee* 

JOAN SUTTON AWARD To a student demonstrating a strong dedication to professional nursing, clinical excellence, and interdisciplinary practice Jointly awarded to *Megan Alicia Hoffmann Lilly Hamilton Schott* 

#### The School of Professional Studies in Business and Education

BACHELOR OF SCIENCE IN INTERDISCIPLINARY AWARD FOR HUMANITIES Awarded to *Victoria Maboney* 

BACHELOR OF SCIENCE IN INTERDISCIPLINARY AWARD IN SOCIAL SCIENCE Awarded to *Ameriga Strache* 

DEAN'S AWARD FOR SUSTAINED EXCELLENCE Awarded to Samuel Quarcoo

DELTA SIGMA PI SCHOLARSHIP KEY In the Division of Business and Management for the highest grade point average in the undergraduate programs Awarded to *Shaun Michael Blakeslee* 

INFORMATION SYSTEM AWARD Jointly awarded to Mark Gottlieb Mubler Wayne William Wanless

DIVISION OF PUBLIC SAFETY LEADERSHIP AWARD Awarded to *Eric Taron Levenberry* 

DIANE TOBIN MEMORIAL AWARD Awarded annually to an outstanding alumna/us in education and to an outstanding student in General Education or the Master of Arts in Teaching program Awarded to Jeanne Marie Dwyer

WALL STREET JOURNAL AWARD In the Division of Business and Management for outstanding scholarship in the undergraduate programs and exceptional promise of future success. Awarded to *Timothy Lee Allgire* 

#### The School of Medicine

THE HENRY STRONG DENISON SCHOLARSHIP The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation Awarded to Michael Joseph Dorsi, 2002–2003 Brenda Aika Shoo, 2002–2003

THE PAUL EHRLICH **RESEARCH AWARDS** The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day Awarded to José Luis Avalos, 2002–2003 Yib-Ru Fannjiang, 2002-2003 Gyanu Lamichhane, 2003-2004 Sanrabh Saha, 2002–2003 Daniel Ryland Southworth, 2003-2004

THE HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research contributions. Awarded to Marissa Ann Blam, 2002–2003

THE MARTIN AND CAROL MACHT RESEARCH AWARD The Martin and Carol Macht Research Award is awarded to a doctoral candidate whose research evidences elegance in science, originality in thought, and creativity in approach. The award was made possible by a donation from the Machts of Cincinnati, Ohio. Martin Macht, who earned his medical degree and doctorate at Hopkins, is a professor of medicine and psychiatry at the University of Cincinnati. Carol Macht holds a doctorate in fine arts and archaeology. Awarded to Sarah May White, 2003-2004

THE FRANK H. NETTER, M.D. MEMORIAL SCHOLARSHIP IN MEDICAL ART The medical illustrator Frank H. Netter, M.D., is known worldwide for his ability to distill complex medical subject matter into clear, effective teaching images. Dr. Netter was not only a skilled draftsman but knowledgeable in anatomy, physiology, and pathology through his medical training. Family and friends established this scholarship to recognize a student in Art as Applied to Medicine that displays a similar balance of medical and scientific knowledge with the artistic skills that he exhibited throughout his career. Winners of this award have excelled in their academic courses; displayed exceptional art expression; and most importantly utilized both resources to create welldesigned and effective didactic illustrations. Awarded to Tiffany 7. Glass, 2003-2004

NOVARITIS AWARD FOR OUTSTANDING COMMUNITY SERVICE

The Novaritis Pharmaceutical Company makes a yearly award to that student in the second year of the School of Medicine who is judged by classmates to have made the greatest contribution to our community. Awarded to *Aimalobi Agnes Abonkhai*, 2001–2002

THE HANS JOAQUIM PROCHASKA RESEARCH AWARD The Hans Joaquim Prochaska Research Award was established in 1998 to honor outstanding discovery by a student in the School of Medicine. Awarded to David Ednardo Barañano, 2002-2003 Venkatesh Locharla Mnrthy, 2000–2001

MICHAEL A. SHANOFF RESEARCH AWARD The award is made annually to a student for significant research contributions in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from The Johns Hopkins University. Awarded to Joshua Todd Mendell, 2002–2003

THE ALICIA SHOWALTER REYNOLDS RESEARCH AWARD This award was created by the School of Medicine Dean's Office in 1996 to honor the memory of Alicia Showalter Reynolds, a Ph.D. student in the Department of Pharmacology and Molecular Sciences from 1992 until her untimely death in 1996. It is given in recognition of contributions to research undertaken by a Ph.D. candidate in the School of Medicine. Awarded to Joshua D. Groman, 2002–2003 Joseph Wesley Lewcock, 2003–2004

#### THE METTE STRAND RESEARCH AWARD

The Mette Strand Research Award was established in 1998 as an enduring legacy to graduate education and to honor the contributions to science and education made by Dr. Strand as a professor of pharmacology and molecular sciences from 1977 until her untimely death in 1997. The award is made possible by the generous contributions of her colleagues and friends as a tribute to her contribution to humanity in the quest for a vaccine against schistosomiasis, her unvielding devotion to science, and her role in the training of a generation of graduate students of this institution.

Awarded to *Timothy W. Hefferon, 2003–2004* 

### THE STUDENT RESEARCH AWARD

The Student Research Award is sponsored by the Association for Academic Surgery and recognizes outstanding research efforts by a senior medical student interested in a surgical career.

Awarded to Jeffrey Hall Kozlow, 2003–2004

NUPUR DINESH THEKDI RESEARCH AWARD This award was established in 2002 to honor the memory of Nupur Dinesh Thekdi, an M.D./Ph.D. student in the School of Medicine from 1996 until his untimely death in 2001. The award was made possible by the generous contributions of his family and friends and is given to honor outstanding research contributions made by a student in the School of Medicine. Awarded to *Jacob Michael Jones*, 2001–2002

THE W. BARRY WOOD STUDENT RESEARCH AWARD The W. Barry Wood Student Research Award recognizes present commitment and future promise in research. Awarded to *Cheryl Patricia Ekkebus*, 2001–2002 Douglas Edward Ramsey, 2001–2002 Michael Kenneth Shindle, 2002–2003

## The Bloomberg School of Public Health

J. HOWARD BEARD FELLOWSHIP To an outstanding student pursuing a career in local or state public health work Awarded to *Andrew Shannon* 

RUTH B. AND J. DOUGLAS COLMAN SCHOLARSHIP To an outstanding preventive medicine resident Awarded to *Craig Hales* 

THE GENERAL PREVENTIVE MEDICINE RESIDENCY ENDOWMENT To an outstanding general preventive medicine resident Awarded to *Aruna Chandran* 

THE GLAXOSMITHKLINE PREVENTIVE MEDICINE RESIDENCY SCHOLARSHIP To an outstanding preventive medicine resident Awarded to *Christopher Sullivan*  THE HOWARD C. AND JANE R. GOODMAN FUND To an outstanding MPH student Awarded to *Rachel Lapidus* 

THE HAROLD AND SYLVIA HALPERT ENDOWMENT FUND To recognize achievement and potential to contribute to the field of mental health Awarded to *Catherine Dormitzer* 

THE PAUL A. AND C. ESTHER HARPER AWARD IN POPULATION AND FAMILY HEALTH SCIENCES To a graduating student in Population and Family Health Sciences to recognize academic excellence and achievement Jointly awarded to *Unni Karunakara W. Courtland Robinson Michael Yonas* 

THE LILLIAN HISS-ETHEL CROSBY SCHOLARSHIP FUND To an outstanding graduate student with a nursing background Awarded to *Kristin Kuldanek* 

THE JOHN C. HUME FUND FOR ACADEMIC EXCELLENCE AND PROMISE IN AN MPH STUDENT To an MPH student with demonstrated academic excellence and professional promise Awarded to Asbwin Anantbakrisbnan

THE MORTON KRAMER FUND FOR THE APPLICATION OF BIOSTATISTICS AND EPIDEMIOLOGY IN RESEARCH ON THE PREVENTION AND CONTROL OF MENTAL DISORDERS To an outstanding doctoral student dedicated to advancing knowledge of the epidemiology and prevention of mental disorders Awarded to Ya-Fen Chan THE MARGARET MERRELL FUND To a Biostatistics doctoral student in recognition of outstanding research Awarded to *Wei-Min Chen* 

DAVID PATON SCHOLARSHIP IN PREVENTIVE MEDICINE To an outstanding general preventive medicine resident Awarded to *Daniel Shodell* 

THE DAVID LESLIE SWIFT FUND To an outstanding doctoral student in the Division of Environmental Health Engineering Awarded to *James McDevitt* 

THE WATT/HANSELL ENDOWMENT To support cross training at the School of Public Health and the School of Medicine Jointly awarded to *Marian Betz Aisba Hugbes Brett Nelson* 

#### The Paul H. Nitze School of Advanced International Studies (SAIS)

WILLIAM C. FOSTER AWARD To a second-year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty, and ability admired in Mr. Foster. Jointly awarded to *Carrie E. Callaghan Darlene Damm* 

CHRISTIAN A. HERTER ACADEMIC AWARD To the member of the secondyear class with the most outstanding record during the first year Awarded to *Katharina Plück* 

### HONOR SOCIETIES

#### Phi Beta Kappa

Phi Beta Kappa is the nation's oldest and most prestigious undergraduate honors organization. To gain election students must have excelled in a broad array of undergraduate courses in the arts and sciences offered at one of the 249 colleges and universities in the United States that are sufficiently rigorous and intellectually challenging to shelter a Phi Beta Kappa chapter, which was founded at the College of William and Mary in 1776. The Hopkins chapter was founded in 1895.

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2004

Melody Abedinejad Mary Maratovna Akchurin Rachel Ayne Armentrout Salvatore Nunzio Astorina **Joshua Lewis Avins** Lukasz S. Babiarz Whitney Sara Baron Jason David Beery Sarah Yunlan Berkson Aline Marguerite Bernard Stephanie Marie Bistak Michael Lewis Boucher Rebecca Susan Bulger Anthony Robert Carlino Megan Kathryn Carr Jeff Chang Zainab Shafqat Cheema YouSun Chung David Ray Crandall Sarah Elizabeth Dashiells Christin Lynne Davis Sneha Shailesh Desai Christopher Henri Desir Rajiv Devanagondi Elan Shlomo Diamond Eric Liang Bao Ding Jillian Renee Dungan Loren Matthew Dunn Fei Jamie Dy Andrew D. Fair

**Jeffrey Peter Fiorenza** John Barrington Fischer Justin Franklin Gainor Ioseph Michael Gentile Emma Dora Gregory Barkha Gurbani Patricia L. Hampson Andrea M. Hwang Kern Kapoor Andrew Samuel Kelly Gail Kim Iared Wilson Klein Olivia Taylor Klose Heather Knutson Susan Michelle Lamb Georgiana Lee Johnson C. Lee Su H. Lee David Asher Leiman David Jay Levine Joselin SuChing Lim Barbara T. Lin Paul Anthony Longo Allen Major Ajay Mantha Emily Kate Mayer Heather LaRue McGee Ioana Luminita Mera David Michael Merrick Carolyn Anne Moss Asad Nawaz Rebecca Marie Nelson Paul S. Nerenberg Daniel Steven Ong Jenny H. Pan Alexis Iiman Pappas Alexander Jungho Park In-Kyu Park Samuel David Permutt Nancy Katharine Picknally Audrey Pinn Annelise Pruitt Rebecca Shea Pyne Madhav Raina-Thapan James Caryl Roberts Christopher P. Said Zachary H. Samalin Mark Edward Shaffer Natalie Rae Shapero Jun Shoji Aaron Michael Shulman Erin Melissa Silverinan Stephen Alex Smyers Emily Stecker

Gregory Lee Stonerock Shahjahan Sultan Teerath Peter Tanpitukpongse ManWing Joanne Tsui Suni Vemula Matthew Lepore Vestal Ionathan Brett Wallach Michael Walsh Pong Jeh Wang Erica Lynn Weiss Meghan Heather Werner Tiffany Davis Whelan Daniel Jacob Winnick Glenn Mitchell Wolfe XiXi Wong Samantha Christina Woo Iulia Wu Fang Xu Derek Yang Ting Sum Lydia Yee

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2003

Trevor Todd Adler Cassandra Rae Duffy Inga Gurevich Daniel David Herr Chang Eun Jung Michelle Helena Moniz Anand Kumar Narayan Nishant Dinesh Patel Wen Shi Amit Navin Vora Brandon David Zonker

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2002

Jennifer Ann Danielsson Jennifer Marie Poti Rachana P. Vajjhala

FROM THE SENIOR CLASS IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES ELECTED IN 2001

Daniel Thomas Davis

FROM THE PH.D. CANDIDATES IN THE ZANVYL KRIEGER SCHOOL OF ARTS AND SCIENCES

Azin Chorbani Nezami

FROM THE PH.D. CANDIDATES IN THE BLOOMBERG SCHOOL OF PUBLIC HEALTH

Weimin Chen Nicole Huang Hirono Ishikawa Marie-Helene Roy-Gagnon

FROM THE PAUL H. NITZE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

Meghana Narsinha Lele

FROM THE M.D. CANDIDATES IN THE SCHOOL OF MEDICINE

Deborah Lynn Cummins Jamie Michelle Rand

FROM THE PII.D. CANDIDATES IN THE SCHOOL OF MEDICINE

José Luis Avalos Yingbei Chen Hanzhang Lu Yan Zhou

#### Woodrow Wilson Undergraduate Research Fellowship Program

Unique to Johns Hopkins University, the Woodrow Wilson Undergraduate Research Fellowship Program, founded in 1999, offers a select group of undergraduates in the Krieger School of Arts and Sciences the opportunity to explore new avenues of inquiry alongside and with the guidance of scholar-teacher mentors whose own research is at the cutting edge of their disciplines. Selection of Fellows is based on academic merit and the strength of applicants' proposals for independent research. Students have the Fellowship for the entire length of their undergraduate careers.

The following members of the graduating class have been Woodrow Wilson Fellows.

Michael Lewis Boucher Jaqueline Jamie Chan Patricia Hue Chan Rita Yoonhae Choi David Ray Crandall Terry Dean Jr. Melissa Haines Floca Casey Bratton Gibbons Nicole Elana Graham David McKinley Harris Seema Kaura Gail Kim Ho-Young Kim Melody Lao Ioana Luminita Mera Michelle Helena Moniz Andrew Howard Moskowitz Carolyn Anne Moss Jenny H. Pan Sarah Elizabeth Parkinson Samuel David Permutt Annelise Pruitt Matthew Scott Sekerke Wen Shi Erin Melissa Silverman Michael Vidne Amit Navin Vora

XiXi Wong Julia Wu

#### Tau Beta Pi National Engineering Honor Society

FROM THE SENIOR CLASS IN THE G.W.C. WHITING SCHOOL OF ENGINEERING

Charalambos Jean Anotoniou Ebba Kristina Bonde Julie Lindsey Browne Stefan Christopher Casillo Marvin G. Chang Jonathan Cheponis Henry Mowry Cook III Kelly Jennifer Davis Edmund Kim Dorsey Matthew Scott Durst **James Hamilton Easter** Genevieve Louise Gallagher Michael Paul Gillmeister Eric Goldlust Ying Gu Sondra Lynn Hellstrom Yen Shi Gillian Hoe Elbert Shang Nung Hu Lawrence Huang John B. Issa Eric Benjamin Pierre Jabart Alexander Zen Jow Golda Yetta Katzoff Xiaoying Carol Koh Iris Kuo Brett L. Kutscher Andrew G. Lamperski Etan Jin-Gie Lee Kyong Ae Lee Daniel John MacNeil Candice Traci Mak Steven Andrew Matsumoto Mary Kathleen McDonald Andrew Thomson Myers Evangeline Shimei Ng Jonathan David Packer Erika Ann Peterson Clare Brenna Poynton Roshan Andrew Punnoose Jun-Kyu Rhee Grant Francis Roch Kimberly Ann Rosendorf Michelle Antoinette Saliga Danilo Šćepanović Thomas C. Sharkey Hui S. Son

Bhuvan Srinivasan Christopher Johnathan Szilagyi Jein Nern Tay Seth Alan Townsend Benny I-Chiao Tsai Aimee Inzu Wu

#### Alpha Omega Alpha Honor Medical Society

The Alpha Chapter of Maryland was established at The Johns Hopkins University School of Medicine in 1906. Medical students with outstanding records are elected to membership in their senior year.

The following members of the graduating class have been elected to membership in Alpha Omega Alpha:

Kristin Whitford Barañano **James Andrew Browne** Melissa Suzanne Camp Alexandra Cappiello Deborah Lynn Cummins Brian Thomas Garibaldi Meg Rebecca Gerstenblith Amy KaLee Henderson Ryan Michael Kretzer Ivy Ann Ku Jennifer Sophie Roberts Mammen Andrew Evan Muck Hari Nathan Jennifer Cohen Price Jamie Michelle Rand Meghan Kathleen Rothenberger Michael Kenneth Shindle Akhilesh Keshav Sista Rebecca Lyn Toonkel Tracy Jennifer Wanner

#### Delta Omega National Public Health Honor Society

Hanan Jaber Aboumatar Agbessi Amouzou Ashwin N. Ananthakrishnan Yutaka Aoki Hossein Bahrami Julie Anna Bettinger Marian Elizabeth Betz Edmund J. Bini Nikolas Buescher Thomas Peter Cappola Aruna Chandran Anne Barrington Claiborne Marla Lynn Clayman Katherine Anne Close Donna Jean Curtis **Jefferson James Dovle** Altoon S. Dweck Schorr Amy Gartland Egan Amy Adair Ellis Kate E. Fothergill Patricia Ellen Fox Joshua Paul Garoon Kiera Goodman Kerry Michele Green Mark Raymond Hall Farah Haq Katharine Grace Haxall Mark Stevenson Hayden Shannon Louise Henshaw Keri L. Hyde Rachel L. Johnson Caitlin Elizabeth Kennedy Denny Hyun-Guen Kim Jiing-Tang Ko Gregory Michael Lucas David Barrett Martin Elizabeth Anne Martinez James Joseph McDevitt IV Eugene Vincent Millar Mari Nagai Brett Dee Nelson Catherine Starr Nelson Omolara Adewunmi Olaniyan Janus Po Ong Laura Ann Pacha Christina Catherine Pallitto Ryan Hodges Pasternak Maria Jose Perez-Patron Sallie Robey Permar Christopher Baxter Pierce Matthew Warren Pierce Rheanna Edith Platt Jeffrey Louis Pollet Preetha Rajaraman Shubha Vanessa Yvonne Raju Bahie Mary Rassekh Lynda J. Redwood-Campbell Judith Morya Resick Adam Kimball Richards W. Courtland Robinson Joshua Cory Rubin Lewis Rubinson

Milda Renee Saunders Connie Christine Sexton Deborah Michelle Stein Valerie Jean Thompson Michael Allan Yonas Feng Zhao Karen Paul Zimmer

#### Sigma Theta Tau International Honor Society of Nursing

The following doctoral student is a member of Sigma Theta Tau

Sarah Loeb Szanton

The following graduate students are members of Sigma Theta Tau

Sara Catherine Adelman **Cheryl Dianne Borries** Dorian Gae Frackelton Maria Christina Geronimo Rosa Maria Gonzales Katherine Louise Gundzik Calisha Carol Harmon Terri Jean Holloway-Petty Elizabeth Anne Johnson Mary E. Keller Valencia N. McCree Nailya Muganlinskaya Rene Beth Shumate Amanda Lynn Smith Amanda L. Stefancyk Grace H. Sun Jessica Ann Tesk Katherine Mary Thompson Tina Maria Tolson Jill Michelan Trachta Ida-Marguerite M. Twilley

The following undergraduate students are members of Sigma Theta Tau

Rebecca Lynn Abel Mary Ahn Courtney Lynn Anderson Olga Vladislavovna Baturenko Marguerite L. Baty Kristy Sharon Bennett Michelle Anne Berardi Ruth Anne Beutler Michelle Rayssa Bezos Sharyn Marie Boissevain

Rachael Christina Caputo Margaret Ann Carpino Jace Haylings Chalon Alisha Jane Clinger Kelly Ann Conroy Tanya Melissa Dierksheide Jennifer Anne Donohue Tresa Kaur Dusaj Sonja Hayden Emerson Katherine Elizabeth Ernst Elizabeth Leigh Fricke Stephanie Leigh Gorman Laura Marie Grant Laura Kristin Greene Sara Jean Hallam Lindsay Marie Heberling Rebecca Rae Heck Megan Alicia Hoffmann Alison Marguerite Ivey Dana Jones Rebecca L. Joplin Marcy Joy Kalogiannis Jenny Yen Kang Karen Ann Klima Susan P. Koo Jennifer Marie LaFont Amy Elizabeth Maxted Jeanne Marie McCarter Maureen Patricia McGee Danielle Marie McQuigg Kelly Jessica Meagher Jessica Little Noves Melissa Ann Pasteris Jamie Elizabeth Peterson Amy Melissa Pettler Hilary Cristin Poan Yvonne Elizabeth Raphaelson Sara Ann Rocheford Jennifer Brie Rock Paul Michael Schwartz Shelly Patricia Seaman Monica Irene Shelley Joanne Spafford Melissa Sue Tharnish Christy Sarah Thiessen Courtney Nicole Todd Jessica Brook Tompkins Dannielle Bina Toner Amy Suzanne Turgeon Nyree Dawn van Maarseveen Jennifer Ann Werthman Angela Estella Wilkins Jennifer Colleen Winfree Erin Katlyn Wipff Kathryn Veronica Young

#### Honor Societies for the School of Professional Studies in Business and Education

Alpha Sigma Lambda Alpha Sigma Lambda is a national honor society for undergraduates in continuing higher education and is dedicated to the advancement of scholarship and leadership. Membership in the Theta Omicron Chapter is open to matriculated undergraduates who have attended the School of Professional Studies in Business and Education for at least four semesters and have completed at least 30 credits in the School of Professional Studies in Business and Education with a 3.2 grade point average.

The following members of the graduating class are members of Alpha Sigma Lambda:

Christine-Marie Gedansky Krieg Matthew Lloyd Mark Gottlieb Muhler Samuel Quansait Quarcoo Regina Maria Saunders Ameriga Strach

#### Delta Sigma Pi

The Delta Sigma Pi, Chi Chapter, established in 1922, sponsors professional, social, and community service activities, as well as regional and national Delta Sigma Pi conferences. Upon graduation, Delta Sigs may continue their participation through the Baltimore Alumni Chapter, one of the oldest and largest alumni chapters in the country.

The following members of the graduating class are members of Delta Sigma Pi:

Vanessa Laureia Bradley William Russell Clark Jean Tanja Clark

### HONORS

General University Honors were determined at the end of March 2004 for students who had achieved a cumulative Johns Hopkins University grade point average of 3.5 or higher. Students earning this honor at the end of the spring 2004 semester will have that notation placed on their final transcripts.

#### Baccalaureate Candidates Graduating with General Honors

## The Zanvyl Krieger School of Arts and Sciences

Melody Abedinejad Trevor Todd Adler Farah Ahmad Katherine Marie Aird Mary M. Akchurin Andaleeb Jahan Alam Eluard M. Alegre Rachel Avne Armentrout Salvatore Nunzio Astorina Whitney Elizabeth Austin Lukasz S. Babiarz Michael Anthony Balazs Whitney Sara Baron Julie Anne Barro Daisy Elizabeth Beatty Jason D. Beery Russell Bradley Berger Sarah Yunlan Berkson Aline Marguerite Bernard Anita Praful Bhansali Stefanie Marie Bistak Heather Lynn Blair Michael Lewis Boucher Christopher Walden Bowers Alexandra Mari Bubb Rebecca Susan Bulger Anthony Robert Carlino Megan Kathryn Carr Catherine Jing Yi Carroll Jacqueline Jamie Chan Patricia Hue Chan Howard Kai-hao Chang Jeffrey Chang William Tung Chang Zainab Shafqat Cheema

Grace Kwon May Cheng Amy Beth Chernuchin Ellen Jaehee Chung Yousun Chung Brendan Patrick Costigan David Ray Crandall Sarah Elizabeth Crawford Brenda Leigh D'Ambrisi Amy Elisabeth Daniels Jennifer Ann Danielsson Sarah Elizabeth Dashiells Christin Lynne Davis Daniel Thomas Davis Sara Elisa Dav Sneha Shailesh Desai Christopher H. Desir Rajiv Devanagondi Elan Shlomo Diamond Ioshua Scott Dickstein Michael Anthony Diliberti Eric Liang Bao Ding Michelle Elizabeth Doll Crystal Leigh Doyle Gehaan Franklin D'Souza Cassandra Rae Duffy Jillian Renée Dungan Loren Matthew Dunn Fei Jamie Dy Austen Conrad Endersby Austin Ridgely Evers Andrew David Fair Jennifer Marie Farrelly Alexandra Kate Mariette Fenwick Ryan M. Finley Brandi Nicole Fluent Katherine Marie Fox Marie Kav Fukudome Brad Edward Fuller Milind Satish Gadgil Justin Franklin Gainor Joseph Michael Gentile Michael Alan Gilger Devra Michelle Goldberg Ciara Joy Goldstein Leah Stephanie Greenfield Emma Dora Gregory Jonathan Bernard Groce Ankush Gupta Barkha Naren Gurbani Inga Gurevich Abeba Emnetu Habtemariam Anne Heaton Halverson Patricia Louise Hampson

Paul Iin Han Barrie Jessica Hardymon Daniel David Herr Hanh My Ho David Ioon Hur Hadi Husain Andrea Michelle Hwang Ji-Young Hwang Dan Ishihara Nicholas Paul Java Chang Eun Jung Sung-woo Kang Kern Kapoor Ami P. Karnik Tracy Ann Kaufman Andrew Samuel Kelly Lvnda Ken Andleeb Khan Gail Kim Ho-Young Kim Na Mee Kim SungTae Kim Matthew David Klaiber Jared Wilson Klein Olivia Taylor Klose Heather Ann Knutson Eliz Konat Alexis Kruczek Rohan Rajiv Lall Susan Michelle Lamb Jung Eun Lee Lok-sye Georgiana Lee Su H. Lee Jason D. Lehman David Asher Leiman David Jay Levine Quan Lan Jasmine Lew Silvia Sze-Wai Li Paul Michael Sabado Lim Barbara T. Lin Mindy Fung-Lum Lo Cara Elisabeth Loevs Paul A. Longo Kerry Elizabeth Loreto Allen Major On On Man Ajay Mantha Kevin Paul Marquez Teresa Gina Matejovsky Emily Kate Mayer Stephen Andrew McCartney Heather LaRue McGee Allison Grace McNickle Ioana Luminita Mera

Iane Miller Jubeen Moaven Michelle Helena Moniz Robert Michael Morrison Andrew Howard Moskowitz Carolyn Anne Moss Kristen Leigh Mugford Nicholas Muntean Asad Nawaz **Jonas Allan Nelson** Rebecca Marie Nelson Paul Samuel Nerenberg Jonathan Michael Nizar Robert James Oldt III Aaron Howard Ong Daniel Steven Ong Helena Marie Orbach Heather Elizabeth Otto Dave Ashish Pai Hua-Han Pai Jenny H. Pan Alexander Jungho Park In-Kvu Park Sarah Elizabeth Parkinson Nishant Dinesh Patel Nancy Katharine Picknally Audrey Leslie Pinn Scott Linton Pitz Alan Scott Polackwich Jr. Eva Poon Jennifer Marie Poti Annelise Pruitt Rebecca Shea Pyne Mohammed Adil Qureshi Madhav Raina-Thapan Prashanth Sadashiva Rao Kelly Marie Reeves James Caryl Roberts Kyle Stewart Robinson Emilie Katherine Romeiser Daniel Moses Rosenthal Ali Renee Rosof Jennifer Junko Saito Zachary H. Samalin Dilan Buddhika Samarawickrama Adhiraj B. Sarpeshkar Lindsay Morgen Saxe Elizabeth Lynn Schlicher Jason Andrew Schuman Raphael Daniel Schweber-Koren Mark Edward Shaffer Natalie Rae Shapero

Sumit Sharma Elizabeth Nicole Shaw Shanti Kiran Shenoy Wen Shi Aaron Michael Shulman Suzanne Amanda Siefert Erin Melissa Silverman Stephen Aaron Silverman Stephen Alec Smyers **Emily Austin Stecker** Elizabeth Helen Stewart Gregory Lee Stonerock Jr. Jamie Allison Stratton Jason Paul Sulkowski Whitney Alison Sullivan-Lewis Shahjahan Sultan Stephanie Ning Sun Christopher Pascal Tallent Teerath Peter Tanpitukpongse Chad Jacob Tarabolous Matthew Kerson Taylor Rachel Eve Tehrani Phuong Tu Tran Man-wing Joanne Tsui Rachana P. Vajjhala Sunitha Vemula Adriana Michelle Verleysen Matthew Lepore Vestal Michael Vidne Amit Navin Vora Anuja R. Vora Megan Katherine Waitkoff Jonathan Brett Wallach Michael Joseph Walsh Pong-Jeh Wang Heather Bronwyn Warnken Erica Lynn Weiss Meghan Heather Werner Tiffany Davis Whelan Crystal Dawn White Joseph E. White Anastasia Marie Wincorn Daniel Jacob Winnick Glenn Mitchell Wolfe Ir. Eleni Deena Wolfe-Roubatis XiXi Wong Samantha Christina Woo Seung-hyun Woo Iulia Wu Ye-Min Wu Rena Ruiyu Xian Fang Xu Ruyin Xue Derek Yang Ting Sum Lydia Yee Chong Kun Yi Brandon David Zonker

#### Baccalanreate Condidates Gradnating with General Honors

### The G.W.C. Whiting School of Engineering

Dom Acosta Stephen Paul Ajemian Leon Michael Aksman Yoojin Cindy An Liakos Constantinos Ariston Christopher Michael Auyeung Jessica Elaine Bickel Brvan Timothy Brilhart Julie Lindsey Browne Daniel Joseph Callahan Stefan Christopher Casillo Jonathan Cheponis Henry Mowry Cook III Kelly Jennifer Davis Edmund Kim Dorsey Ioshua Evan Dunkelman Matthew Scott Durst James Hamilton Easter III Genevieve Louise Gallagher Michael Paul Gillmeister Eric Alan Goldlust Yehuda Pinchas Graber Josh Robert Greenwald Ying Gu Ryan Christopher Hanley Sondra Lynn Hellstrom John Sotirios Hiotes Yen Shi Gillian Hoe Elbert Shang Nung Hu John Bassam Issa Eric Benjamin Pierre Jabart Alexander Zen Jow Golda Yetta Katzoff Andrew Eugene Kim Seok Chan Kim Xiaoying Carol Koh Brooke Kunpalin Iris Kuo Brett L. Kutscher Andrew George Lamperski Craig Larson Ethan Jin-Gie Lee Kyong Ae Lee Kenneth J. Loh Daniel John MacNeil Candice Traci Mak Steven Andrew Matsunoto Jeffrey Stephen McDonald Andrew Thomson Myers Robert Rushton Nagle Jr.

Ionathan David Packer Erika Ann Peterson David Joseph Ploskonka Roshan Andrew Punnoose Jun-Kyu Rhee Loren Christopher Robinson Kimberly Ann Rosendorf Michelle Antoinette Saliga Danilo Šćepanović Michael Brian Sharma Jonathan Hensgen Sharp Yoolee Shin Jeffrey S. Shouldis Eric Arthur Simone Hui S. Son Daniel Tarbell Swanson Christopher Johnathan Szilagyi Jein Nern Tay Jesse Robert Theiss Seth Alan Townsend Jessica Ivanka Treidl Benny I-Chiao Tsai Hsiang-Jer Tseng Landon Shawn Unninayar Aimee Inzu Wu Michael Ting Yang James Ray Zarfoss III

#### Baccalanreate Candidates Graduating with Departmental Honors

## The Zanvyl Krieger School of Arts and Sciences

Melody Abedinejad, History Trevor Adler, History Lukasz Babiarz, Neuroscience Michael Balazs, Physics Jason D. Beery, International Studies Stephen M. Blank, History Andrea Borchardt, Biology Rebecca Bulger, Political Science Jeff Chang, Neuroscience Amy Chernuchin, Writing Seminars Dennis Chi, Writing Seminars Brenda D'Ambrisi. **Political Science** Sneha Shailesh Desai, Neuroscience Eric Ding, Public Health Studies Crystal Doyle, French and Spanish

Jillian R. Dungan, International Studies Yvonne Y. Feng, Writing Seminars John Fischer, Psychology Melissa Floca, Political Science Leah S. Greenfield, Political Science Emma Dora Gregory, Cognitive Science Barkha Gurbani, Public Health Studies Inga Gurevich, Neuroscience Patricia Hampson, History Hanh M. Ho, Biophysics and History David J. Hur, Biophysics Dan Ishihara, Neuroscience Nicholas Paul Java, International Studies Sung-Woo Kang, Biophysics Ami P. Karnik. International Studies Andrew S. Kelly, Political Science Ho Young Kim, International Studies Olivia Klose, History of Art Heather Knutson, Physics Mark R. Koenig, Political Science Alexis Kruczek, Cognitive Science Rohan Lall, Biology Susan Lamb, Biology Lok-Sye Georgiana Lee, History Quan-Lan Jasmine Lew, Neuroscience Alan Liskov, Political Science Weibin Liu, Biology Kerry E. Loreto, French Anjay Mantha, Neuroscience Teresa Matejovsky, French Jubeen Moaven, Neuroscience Heather LaRue McGee, International Studies Michelle E. Mohr, History Andrew Moskowitz, Writing Seminars Anand Narayan, Biology Asad Nawaz, Biology Rebecca Nelson. International Studies Paul Nerenberg, Physics Jonathon Michael Nizar, Neuroscience Robert J. Oldt, Biophysics Daniel Ong, Biology Heather E. Otto, History

Alexander J. Park, Neuroscience In-Kyu Park, International Studies Samuel Permutt, History Audrey Pinn, Political Science Annelise Pruitt, Writing Seminars Mohammed Adil Oureshi, International Studies Deepthi Reddy, Biophysics Mark E. Riso, Anthropology and Writing Seminars James C. Roberts, Physics Daniel M. Rosenthal, History Ali Rosof, History of Art Adam R. Schenker, Writing Seminars Sumit Sharma, Nenroscience Shin Simon Shoji, International Studies Aaron M. Shulman. Writing Seminars Jason Schuman, International Studies Natalie Rae Shapero, Writing Seminars Sumit Sharma, Computer Science Elizabeth N. Shaw, History of Art Erin Silverman, History Dan Simon, Biology Karen M. Stanley, History Ian P. Stumpf, Political Science Jason Sulkowski, Nenroscience Chad Jacob Taraboulous, Nenroscience Phong Tu Tran, Neuroscience Laura O'Connor Vernikoff, Writing Seminars Matthew Lepore Vestal, Neuroscience Michael Vidne, Physics Amit Vora, Biology Megan K. Waitkoff, Writing Seminars Ionathan B. Wallach, French Michael Walsh, Mathematics and Physics Pong-Jeh Wang, International Studies and Economics Himali M. Weerahandi, Nenroscience Erica L. Weiss, International Studies Tiffany D. Whelan International Studies

Anastasia Wincorn, History of Art and French Daniel Winnick, Economics Glenn Mitchell Wolfe, Chemistry Xixi Wong, Biophysics Seung-Hyun Woo, Biology Ye-Min Wu, International Studies Rena Xian, Biology Derek Yang, Biology Laura Marie Yankowski, International Studies Ting Sum Lydia Yee, Nenroscience Chong Yi, Biology Da David Yu, Economics

\* Please note that some students may not be listed as receiving Departmental Honors because this program had to go to press before receiving notification from the departments.

#### Graduates from the Honors in Biology Degree

Sophia Shakir Wen Shi Jamie Allison Stratton Rena Ruiyu Xian

#### Graduates from the Humanistic Studies Honors Program

Seung-Hwan Hong Shalini Low-Nam Holly K. Martin Lauren Shevchik

Baccalanreate Candidates Graduating with Departmental Honors

The G.W.C. Whiting School of Engineering

Dom Acosta, Electrical Engineering and Computer Science Yoojin An, Biomedical Engineering Stephen Paul Ajemian, Electrical Engineering

Leon Michael Aksman, Electrical Engineering Yoojin Cindy An, **Biomedical Engineering** Charalambos Jean Antoniou. Computer Science and Applied Mathematics and Statistics Christopher Michael Auyeung, Computer Science Jessica Elaine Bickel, Materials Science and Engineering Ebba Kristina Bonde, Applied Mathematics and Statistics Bryan Timothy Brilhart, Mechanical Engineering Julie Lindsey Browne, Electrical Engineering Daniel Joseph Callahan, **Biomedical Engineering** David Lloyd Carrick, Computer Science Marvin Guinyu Chang, **Biomedical** Engineering Jonathan Cheponis, **Biomedical Engineering** Andrea Marie Colabella, Applied Mathematics and **Statistics** Henry Mowry Cook III, Engineering Mechanics Kelly Jennifer Davis, Chemical Engineering Edmund Kim Dorsey, Computer Science Nathaniel Grant Duca, Computer Science Joshua Evan Dunkelman, Computer Science Matthew Durst, **Biomedical** Engineering James Hamilton Easter III, Electrical Engineering Genevieve Gallagher, **Biomedical Engineering** Michael Paul Gillmeister, Chemical Engineering Eric Alan Goldlust, Applied Mathematics and Statistics Yehuda Pinchas Graber, Electrical Engineering Josh Robert Greenwald, Computer Science Ying Gu, Computer Science Sondra Lynn Hellstrom, Electrical Engineering and Physics

Michael Cate Hilsdale, Computer Science John Sotirios Hiotes. Electrical Engineering and Computer Engineering Lawrence Huang, Biomedical Engineering Yen Shi Hoe, Biomedical Engineering Elber Hu, **Biomedical Engineering** John B. Issa, **Biomedical Engineering** Eric Jabert, **Biomedical Engineering** Alexander Jow, **Biomedical** Engineering Golda Yetta Katzoff, Mechanical Engineering Andrew Eugene Kim, Computer Science Seok Kim, Biomedical Engineering Xiaoying Koh, **Biomedical Engineering** Theodore J. Kramer, Mechanical Engineering Brooke Kunpalin, General Engineering Iris Kuo, Applied Mathematics and Statistics Brett L. Kutscher, Computer Engineering Andrew Lamperski, **Biomedical Engineering** Craig Larson, Computer Science Lok Law, Biomedical Engineering Kalman C. Lee, Computer Science Kyong Lee, **Biomedical Engineering** Adrienne Li, **Biomedical Engineering** Vinson Guangyu Liu, **Computer** Science Candace Mak, **Biomedical Engineering** Steven Andrew Matsumoto, Electrical Engineering Jeffrey Stephen McDonald, Electrical Engineering Mary McDonald, **Biomedical Engineering** Robin Mohapatra, Applied Mathematics and Statistics

Andrew Thomson Myers, Civil Engineering Evangeline Ng, **Biomedical Engineering** Jonathan Packer, **Biomedical Engineering** Erika A. Peterson, Applied Mathematics and Statistics David Joseph Ploskonka, **Computer** Eugineering Clare Poyton, **Biomedical** Engineering Roshan Andrew Punnoose, Computer Engineering Jun-Kyu Rhee, **Biomedical Engineering** Loren Christopher Robinson, Computer Eugineering Grant Francis Roch, Applied Mathematics and Statistics Lauren Dana Rosenblatt, Applied Mathematics and Statistics and Computer Science Kimberly Rosendorf, **Biomedical Engineering** Michelle Antoinette Saliga, Applied Mathematics and **Statistics** Danilo Šćepanović, **Biomedical Engineering** Thomas Christos Sharkey, Applied Mathematics and **Statistics** Michael Brian Sharma, Mechanical Engineering Jeffrey S. Shouldis, Chemical Engineering and Applied Mathematics and Statistics Eric Simone, **Biomedical Engineering** Hui S. Son, Mechanical Engineering Ali Soylu, Computer Science Bhuvan Srinivasan, **Biomedical Engineering** Daniel Tarbell Swanson, Computer Science Christopher Johnathan Szilagyi, Computer Engineering Jein Nern Tay, **Biomedical Engineering** Jesse Robert Theiss, Computer Engineering Seth Townsend, **Biomedical Engineering** 

Jessica Ivanka Treidl, *Chemical Engineering* Benny I-Chiao Tsai, *Computer Science* Hsiang-Jer Tseng, *Biomedical Engineering* Landon Shawn Unninayar, *Mechanical Engineering* Andrew Hiram Woods Woodward, *Computer Science* Michael Ting Yang, *Biomedical Engineering* James Ray Zarfoss III, *Computer Science* Jiqing Zhang, *Computer Science* \* Place weth that some an durts

\* Please note that some students are not listed as receiving Departmental Honors because this program had to go to press before receiving notification from the departments.

#### Part-Time Engineering Students

Randolph Paul Allen Khaled Khalil Ativeh Marcelo Clemente Barth Vincent Peter Bonifera Michelle Joyce Bou Gregory Ross Brewer Stanley Hoen Brown John Chapman Buell Charity A. Burd Robert Anthony Burnes Marcus Arnold Burrell Tatyana Bushel Brian Joseph Caine Edward E. J. Callahan Xiaoyan Cao Yaakov Y. Chaikin Agnes Pui-yee Chan Patrick Timothy Clancy Paul William Connors David John Crooker Shawn Edward Cuthbertson Laura Elizabeth Danielian Christopher Glen Dattilo Beau Victor Duarte Kevin Thomas Dusch Arthur Eduardovich Felde Ching Fong William Michael Geer Sunil Jacob George Alexander Naphtali Gertsen

Ronald Wilfred Glockner Daniel Goldman David Eugene Gray Eric Michael Greenberg Mahmood N. Hadi Natalie Ellen Hagan Michele Deborah Hammons Michael John Havrilla Kalman Hazins Janet Lynne Hill Arthur William Hinaman Xiang Cynthia Huang Shane Faro Hutton Rena Yount Jacobson Jatin Raichand Jain James Robert Jolly Daniel Merrett Jones Harsh Kalra Christian Fogaing Kammogne Muralidharan Karicheri Brian Patrick Karney Daniel Thomas Kelly Patrick Jean Frannois Kerharo Omar Ali Khan Robert C. Kober Michael Taylor Lamar Ryan Christopher Landy Christopher John Lehman Patrick Alan Lindauer Jing Liu Karen Lake Livingston Jorge Neftali Lugo Joseph Patrick Madden Ted J. Mallo Allen Grant Markson Joshua James Daniel Martin Christopher Mattei Jay Alan Matzko Christopher Robert McDowell Brian James McNamara Timothy Edward Meeks Richard D. Menard Elizabeth D. Miller Jonathan Harold Miller Eric Cleveland Moore Rashad Lydell Moore Ralph Leonard Morgan James L. Murphy Kevin L. Myers Steven Thomas Nassau David A. Nazarek Charles Lloyd Nelson Mark Sean Nesky Danghuy Vu Nguyen James Aaron Nix-Gomez Michael Christopher O'Neill

William C. Orndorff Brian Andrew Oshop Joachim Francis Otero Prasanna Sajeewa Naleen Perera Geo M. Pertea Leighton Oliver Pike Danny Pittas Timothy Scott Plymette Matthew Lee Popelier John David Prive Anshuman Purohit Alan D. Ravitz Edwin Carlos Rivera William Scott Rodney Anthony James Romano Najib Sana Stephen Arthur Schmeiser Jason Eric Schulz Yonason Schwarz Banashree Mitra Seifert Jagat R. Shah Melanie Beth Shames Jill Alexandra Shea Cory Christopher Sheffer Charles L. Shepard Vivint S. Shetty Chester James Silfee **Robert Mitchell Somers** Seth Jesse Summersett Michael Reves Tabernero John B. Thelen Timothy Rodrick Thomas Christopher Andrew Thomson David M. Throckmorton Paul Andreas Tittel H. Ray Tsao Anil Kumar Tummalapalli Stephen Joseph Uurtamo John Patrick Van Hooser Bernadette M. Visintainer Brady S. Volpe Ricky Lee Walton James Hunter Ware Martin Robert Wayne Richard Michael White Peter James Williams David Kwok-Tsam Wong Constance R. Worthington **Irene Yachbes** Steven Paul Yeager

### CANDIDATES FOR DEGREES

Bachelors of Science in Applied Mathematics and Statistics

## The G.W.C. Whiting School of Engineering

Ebba Kristina Bonde Eric Alan Goldlust Iris Kuo Matthew Thomas Lad Ethan Jin-Gie Lee Ha Lim Robert Rushton Nagle Jr. Erika Ann Peterson Grant Francis Roch Michael John Rozsa Michelle Antoinette Saliga Jason Douglas Shirey

#### Bachelors of Science in Biomedical Engineering

## The G.W.C. Whiting School of Engineering

Kyung Chan Ahn Takintope Akinbiyi Yoojin Cindy An Jonathan Osborne Anderson Daniel Joseph Callahan Erik Chi-Hein Chan Ha Na Chang Marvin Guinyu Chang Melissa I. Chang Shamik Chaudhuri Richard Evan Chen Yan-Ming Grace Cheng Jonathan Cheponis Jamie SinLing Chou Hinglum Choy Charles Grahe Danko Matthew Scott Durst Herbert Russell Frisby III Genevieve Louise Gallagher Christina Kenny Giblin Peter Joseph Goldwine Nithin Reddy Gottam Yen Shi Gillian Hoe William Hsu Elbert Shang Nung Hu Jennie Chia-Yin Huang

Lawrence Huang Hien Huynh Nneka Obi Ibekweh John Bassam Issa Eric Benjamin Pierre Jabart Madhukaran Reddy Jannapureddy Ga-young Jeong Elizabeth Lynn Johnson Katherine Wakefield Johnson Alexander Zen Jow Allen Jeong Keel Hyunjin Kim Seok Chan Kim Xiaoying Carol Koh Matthew Chao-Hwa Kung Andrew George Lamperski Lok Law Kyong Ae Lee Joshua Michael Danza Leven Kristoffer Garling Lewis Iennifer S. Liu Daniel Curt Loeser Frederick Bou-Hsuen Lu Candice Traci Mak Mary Kathleen McDonald Shikha Mishra Neerai Modi Michael Peter Murrell Justin Yang Newberg Evangeline Shimei Ng Isil Oge Hyunmi Oh Jonathan David Packer Grace Ka Ka Pang Clare Brenna Poynton Rahavu Ramli Jun-Kyu Rhee Darren Michael Roblyer Kimberly Ann Rosendorf Katie Marie Ruocco Annys Santoso Danilo Šćepanović Deepti Seshadri Eric Arthur Simone Laura Ann Sprowls Bhuvan Srinivasan Anya Lori Taboas Pisan Tantiviwat Jein Nern Tay Ankit Dinesh Tejani

Howard Chen Teng Gary H. Tong Seth Alan Townsend Hsiang-Jer Tseng Anand Viswanathan Michael Andrew Vu Richard Henry Whitney III Aimee Inzu Wu Michael Ting Yang Tae-Kyung Yun

#### Bachelors of Science in Chemical Engineering

## The G.W.C. Whiting School of Engineering

Hyenju Bae Stefan Christopher Casillo Christopher Leigh Charniak Kelly Jennifer Davis Michael Paul Gillmeister Hee-Kyong Stephanie Kim Thomas Joseph Mansell Brittany Katherine McClure Alex Manuel Nieves Martin Chantan Oh Jay Hoon Park Jeffrey S. Shouldis Anna Chandler Stirgwolt Jessica Ivanka Treidl

#### Bachelors of Science in Civil Engineering

## The G.W.C. Whiting School of Engineering

Liakos Constantinos Ariston Brent Jeremy Bass Ryan Christopher Hanley Sarah Melissa Devin Huntting Daniel J. Leone Kenneth J. Loh Thomas Theodore Lydigsen Jason David Mays Andrew Thomson Myers Erik Frank Philipp Sanford Waldo Phillips Kevin Andrew Philpy Timothy Brooks Ruth Annette Mariah Tardiff

#### Bachelors of Science in Computer Engineering

## The G.W.C. Whiting School of Engineering

Avery Choi Bryan David Eberle Charles John Eddleston Richard Edward Hamilton Justin Howe Kearns Brett L. Kutscher Clevenger Paul Pasarell David Joseph Ploskonka Roshan Andrew Punnoose Loren Christopher Robinson Christopher Johnathan Szilagyi Vinay Singh Thakur Jesse Robert Theiss John Matthew Truelove Glenn Mason Wilson

#### Bachelors of Science in Computer Science

## The G.W.C. Whiting School of Engineering

Christopher Ryan Abidin Christopher Michael Auyeung Gil Benjamin Birman David Lloyd Carrick Soo-Yung Cho Erick Tsai Chuang David Siu-Wai Chui Edmund Kim Dorsey Nathaniel Grant Duca Joshua Evan Dunkelman Josh Robert Greenwald Ying Gu Simon Ham Io Hanafusa Michael Cate Hilsdale Fletcher Carl Thomas Hirtle Joseph Yuan-Chi Hsu Li-Chung Hu Andrew Eugene Kim Craig Larson Marc David Lassin David Jinyong Lee Kalman C. Lee Ionathan Lin

The appearance of a name in this section of the program is not considered conclusive evidence of graduation, nor is the omission of a name evidence that a degree was not awarded.

Vinson Guangyu Liu Lukasz Andrzej Majewski Leonard Chinedum Onviah Dylan J. Plotts Lauren Dana Rosenblatt Roger Singh Sahi Monika Anne Schaeffer John Francis Scillieri Yoolee Shin William Emerison Six Ali Sovlu Daniel Tarbell Swanson Benny I-Chiao Tsai Joseph Russell West Matthew Carl Wolf Matthew Chen Yang Rudy Kip Yukich James Ray Zarfoss III Jiqing Zhang

#### Bachelors of Science in Electrical Engineering

## The G.W.C. Whiting School of Engineering

Dom Acosta Stephen Paul Ajemian Leon Michael Aksman Julie Lindsey Browne James Hamilton Easter III Coleman McCourt Flanagan Jeremy Casey Goldin Yehuda Pinchas Graber Matthew Olivier Hart Sondra Lynn Hellstrom John Sotirios Hiotes Lev Ivan Gabriel Iwashko Jeffrey Allen Johnson Hideki James Kinoshita Michael Willem Kruger Dennis Chian Ling Mark William Lowman Ana Natalia Lovola Rebecca Elizabeth Lund Brian Patrick Mason Steven Andrew Matsumoto Jeffrey Stephen McDonald Matthew Robert McKee Robin Ray Mohapatra Agatha Virginia Monzon Scot Robert Myhr John Paul O'Hara Michael Clay Poston

Michael Anthony Sciscenti Isra Sunhachawi Usman Zaheer

#### Bachelors of Science in Engineering Mechanics

## The G.W.C. Whiting School of Engineering

Henry Mowry Cook III Gustavo Arturo Martínez

Bachelors of Science in Engineering Science

The G.W.C. Whiting School of Engineering

John Michael Gallagher

#### Bachelors of Science in Materials Science and Engineering

## The G.W.C. Whiting School of Engineering

Jessica Elaine Bickel Gary Cabatingan Catig Sheila Dickson Thomas Michael Digliani Daniel John MacNeil Reena Ravi Elita Leanne Walker

#### Bachelors of Science in Mathematical Sciences and Engineering

## The G.W.C. Whiting School of Engineering

Irene Ali Kerem Celikel Andréa Marie Colabella Benjamin Adam Kibel Henry Hyuck Paik Thomas Christos Sharkey

#### Bachelors of Science in Mechanical Engineering

## The G.W.C. Whiting School of Engineering

David Vincent Albright Bryan Timothy Brilhart Oliver Watson Buccicone Rachel Elizabeth Callaway Michelle Natalie Clarke Michael Luther Comeau Robert Miles Curry Patrick Brian Danaher Steven Alfred Edwards Alea Anne German Brent Fairs Golden Daniel Colin Hake Gautam Rajnikant Jadhav Golda Yetta Katzoff Theodore I. Kramer Rvan Daniel Lavender Sara Brooke Marten Robert Jeffrey Myers Christopher James Pawlowski Benjamin Graham Purdy Mohammad Omar Ramadan Eric Daniel Romanczyk Michael Brian Sharma Hui S. Son Danielle Caitlin Soya David Lynn Sparks Jr. Aaron Matlack Stackhouse Dat Truong Brian Paul Tursi Landon Shawn Unninayar

#### Bachelors of Arts

## The G.W.C. Whiting School of Engineering

Sung Soo Kim Brooke Kunpalin Rimas Antanas Radzius Garrett William Sussman

#### Bachelors of Arts in Biomedical Engineering

## The G.W.C. Whiting School of Engineering

Amy Zhi Hui Goh Kevin Clifford Whittington Frederick Chengtin Yeh

#### Bachelors of Arts in Computer Science

## The G.W.C. Whiting School of Engineering

Charalambos Jean Antoniou Raj Kumar Chopra Jr. Mustafa Deliveli Andrew Tuan Do Joseph Frederick Keiser Oguzhan Özden Jinyoung Shin Scott James Spencer Andrew Hiram Woods Woodward

#### Bachelors of Arts in Geography The G.W.C. Whiting School of Engineering

David Matthew Strathy

#### Bachelors of Arts in Mathematical Sciences

## The G.W.C. Whiting School of Engineering

Ilene Christy Sharika Renee Pierre-Louis Charles Kelly Porter

#### Bachelors of Electrical Engineering

## The G.W.C. Whiting School of Engineering

Susan Carol Anderson Monica D. Edelstein Jeremy Brent Stampfly

#### Bachelors of Mechanical Engineering

## The G.W.C. Whiting School of Engineering

Kevin Scott Agan David Patrick Calder James Eugene Daniel Jr. C. Damon Johnson Sharon Kathleen Wilhelm

#### Bachelors of Science in Molecular and Cellular Biology

### The Zanvyl Krieger School of Arts and Sciences

Veronica Graciela Beaudry Andrea Maria Borchardt Janet Kathleen Chang Tristen Taeho Chun Yousun Chung Andrea Marguerite Fennelly Joseph Michael Gentile Alexandra Jimenez Ehab Ahmed Komsan Eliz Konat Rohan Rajiv Lall Susan Michelle Lamb James Lee Weibin Liu Shalini Therèse Low-Nam David Michael Merrick Ishwaria Mohan Asad Nawaz Jennifer Marie Poti Luc Raymond Albert Rougée Dilan Buddhika Samarawickrama Wen Shi Dan Simon Andrew Ryan Turkenkopf Amit Navin Vora Rena Ruiyu Xian Derek Yang

#### Bachelors of Science in Physics

## The Zanvyl Krieger School of Arts and Sciences

Anne Marie Adamczyk Michael Anthony Balazs Matthew James Bouloubasis Karol Grzegorz Gryczynski Heather Ann Knutson Paul Samuel Nerenberg Randall Alan Stover Emanuel Alexandre Strauss Michael Vidne Michael Joseph Walsh

#### Bachelors of Arts

## The Zanvyl Krieger School of Arts and Sciences

Melody Abedinejad James William Abraham Trevor Todd Adler Nisha Agrawal Isaiah Aguilar Farah Ahmad Shamim Ahmed Eric Hyungene Ahn Brittany Leila Ahoor Katherine Marie Aird Mary M. Akchurin Andaleeb Jahan Alam Eluard M. Alegre Uel Joseph Alexis Anna Alexopoulos Lillian Kokunda Alibaruho **Robert Francis Alleman** Lindsay D. Allen Julie Amat y Leon Jessica D. Ambrosetti Kartik Anand Raoul Josef Aponte Robert Kenneth Arena Ir. Atakan Mustafa Ariburnu Rachel Ayne Armentrout Stephanie Miki Arndt Salvatore Nunzio Astorina Whitney Elizabeth Austin Joshua Lewis Avins Lukasz S. Babiarz Kara Simone Bagot Jennifer Ryan Bailey Michelle Baker Thomas John Banks Pamela Dorothy Bannon Adriana Marie Baranello Anne Elizabeth Barber Kate Patricia Barcomb Neil P. Bardhan Shavan Bardhan Matthew Graham Barnes Whitney Sara Baron Julie Anne Barro Katherine Morgan Barth Rudra Dev Barua Emir Baruh Robert Brendan Bates Laura Colleen Bauer Daisy Elizabeth Beatty Jacob Benjamin Becker Katherine Louise Beers Jason D. Beery

Russell Bradley Berger Sarah Yunlan Berkson Aline Marguerite Bernard Stanislav Beyderman Anita Praful Bhansali John Paul Bida Matthew Jacob Biewener Stefanie Marie Bistak Heather Lvnn Blair Nina Frances Blanas Stephen Mark Blank Jeffrey Daniel Blehar Leah Ann Blom Kipling Morgan Bohnert Kevin John Boland Dennis Lloyd Boothe Peter Christopher Botsolas Michael Lewis Boucher Lillian Patience Boudreaux Christopher Walden Bowers Catherine Allene Boyd Yeashea Malika Braddock Tyler W. Bratten Michael Jonathan Brown Stephen Bruno III Alexandra Mari Bubb Jeffrey Robert Buchanan Rebecca Susan Bulger Vorachat Bunthuwong Janelle Marie Burke Vladimir Normil Cadet Nichole Kuniko-Tamaye Cadiente Victoria Lee Calderón Anthony Robert Carlino Richard Seth Carlson Jennifer Lynn Caron Megan Kathryn Carr Catherine Jing Yi Carroll Nzinga Kai Carter Timothy Joseph Casale Craig Matthew Cetta Jacqueline Jamie Chan Justin Chan Ning Chan Patricia Hue Chan Christine Ya-Yuan Chang Howard Kai-hao Chang Jeff Chang Jeffrey Chang William Tung Chang Andrea Jayne Chaput Josya-Gony Charles Zainab Shafqat Cheema Evelyn Diana Chen Rose Tzu Ching Chen

Simone Chen Grace Kwon May Cheng Amy Beth Chernuchin Dennis Nye-wen Chi Christina Tien Hui Choi David Choi David Byungjin Choi Rita Yoonhae Choi Sunny Seo Eun Choi Emily Elizabeth Chow Meng-Tsung Steven Chu Augustine Chung Ellen Jaehee Chung Kyuhwa Chung Dana Marie Clark Quia Chantelle Claybourne Michelle Sara Cohen Dean Chris Comuntzis Stephen J. Condouris Joshua Andrew Connor Kevin R. Conrv Amanda Lea Corby Jason Abelardo Cordero Brendan Patrick Costigan Elliot James Coz David Ray Crandall Sarah Elizabeth Crawford Nesa Jihan Crisp Elizabeth Ashley Crowe Brenda Leigh D'Ambrisi Amy Elisabeth Daniels Jennifer Ann Danielsson Sarah Elizabeth Dashiells Derek John Davies Christin Lynne Davis Daniel Thomas Davis William Allen Davis II Laura Beth Davulis Sara Elisa Day Ryan Thomas Degnan Joseph Vincent DeLuzio Ron Ilan Demeter Anthony Donald DePaolis Kristina Marie Derrick Prashant J. Desai Sneha Shailesh Desai Christopher H. Desir Jill Ann DeStefano Rajiv Devanagondi Elan Shlomo Diamond Joshua Scott Dickstein Michael Anthony Diliberti Eric Liang Bao Ding Michelle Elizabeth Doll Crystal Leigh Doyle Cara Nicole Drum

Gehaan Franklin D'Souza Cassandra Rae Duffy Ashlee Morgan Duncan Jillian Renée Dungan Loren Matthew Dunn Fei Jamie Dy Amanda Elizabeth Eckel Diane Katherine Ecklund Austen Conrad Endersby Luke Horsfall English June Young Eoh David Estrakh Ashlev Megin Everett Connie Susan Everett Austin Ridgely Evers Andrew David Fair Jennifer Marie Farrelly Vincent Alexander Faust Yvonne You-Shan Feng Alexandra Kate Mariette Fenwick Adam Jacob Fineman Ryan M. Finley Jeffrey Peter Fiorenza John Barrington Fischer James Daniel Fischkoff Scott Douglas Fisher Melissa Haines Floca Brandi Nicole Fluent Conor Joseph Ford Marisa Siesto Forte Brian C. Foster Fern Elise Foster Katherine Marie Fox Chinatsu Fujiwara Marie Kay Fukudome Brad Edward Fuller Douglas Charles Fullerton Curtis Lee Gabriel Claire Anne Gaden Milind Satish Gadgil Justin Franklin Gainor Christopher Serge Ganan Christopher Michael Garcia Sharifa Crystal Garcia Lakisha Janeen Gaskins Casey Bratton Gibbons Michael Alan Gilger Kate Marie Gilland Emily Helen Ginsberg Justin Ross Glaser Elizabeth Lyndsey Glowienka Alexander J. Gochal Devra Michelle Goldberg Nina Sarah Goldman Ciara Joy Goldstein

Yonit Shoshana Golub Michael Nicholas Gonnelli Elizabeth Field Goodspeed Sarah Bethany Goonan Benjamin William Graff Nicole Elana Graham John Michael Greata Kelly Laurena Greaves Aaron Joseph Greenberg Leah Stephanie Greenfield Emma Dora Gregory Paul Singh Grewal Haves Patrick Griffin leffrev Gordon Griffiths Jonathan Bernard Groce Joseph Salvatore Guarino Ankush Gupta Barkha Naren Gurbani Inga Gurevich Abeba Emnetu Habtemariam Miho Hada Anne Heaton Halverson Patricia Louise Hampson Paul Jin Han Deborah Sue Hardin Barrie Jessica Hardymon David McKinley Harris Charles David Ryan Hartley Theresa Noel Hemmick Daniel David Herr Kelly Christine Hewitt Andrew James High Todd Russell Hippe Christopher R. Hippolyte Megan Frances Hipps Douglas Scott Hitchner Hanh My Ho Hoi Man Connie Ho Connie Hung-Lei Hoe Ann-Marie Paulette Hofer Marion Ada C. Holland Seung-Hwan Hong Ryan Donovan Hopson Ashley Ann Horton Jonathan Lev Gordon Houser Eric Chappell Hsiao Warren H. Huang Yu-Ching Huang David Lee Hummel David Joon Hur Hadi Husain Andrea Michelle Hwang Ji-Young Hwang Sarah Patricia Hwang Ellen Eunyoung Im-Anthony Matthew Ingenito

**Itorobong Samuel Invang** Carl Frank Ippolito Dan Ishihara David George Janarious Nicholas Paul Java Michelle Donna Johnfinn Amanda Corinne Johnson Peter Jones III Adam David Josephart Nikhil Prakash Joshi Chang Eun Jung Zachary John Kail Jessica Marie Kajfasz Stephanie Anna Kaliades Chang-Berm Kang Sohyung Kang Sung-woo Kang Kern Kapoor Ami P. Karnik Julia Anne Karwowski Tracy Ann Kaufman Seema Kaura Peter Jeremiah Kave Vanessa Keating Rachel Michelle Keene Andrew Samuel Kelly Lynda Ken Gyasi Khafra Andleeb Khan Rina Govind Khatri Ashley Duqué Kienzle Rachel Elizabeth Killeen Brendan Todd Kilpatrick Andrew Sungsoo Kim Daidan Kim Eric Nam Kim Gail Kim Ho-Young Kim Hyo-Jin Kim Hyun-Oh Kim Jason Park Kim Na Mee Kim Soyoung Kim SungTae Kim Susie Jeong Mi Kim Yoojin Kim You-Na Kim Matthew David Klaiber David Elias Klein Jared Wilson Klein Olivia Taylor Klose Matthew Robert Koelbl Mark Robert Koenig Marina Riba Koestler Jonathan Samuel Koren Kourtney Jarrell Koslosky

Jeffrey Kranzler Daniel Marcus Kreeger Rachel Krom Alexis Kruczek Jonathan WenHao Kuan John Andrew Kwari Denise Yee Man Kwok Richard Joseph Lamour Melody Lao Stephanie Chi-Ling Lau Thanh Tam Thi Le Justin Ross Leck Johnson Chen-Shing Lee Jung Eun Lee Lok-sye Georgiana Lee Nancy Lee Su H. Lee Yu Lim Lee Jason D. Lehman David Asher Leiman Meghana N. Lele David Jay Levine Quan Lan Jasmine Lew Ariane Kansas Lewis Silvia Sze-Wai Li Philip Lieu Joselin Lim Paul Michael Sabado Lim Ryan Shaun Lim Barbara T. Lin En-Chia Anna Lin Vicky Yi-Chun Lin Alan Harris Liskov Michael William Little Miles Duffy Littlefield Martin Keith Lo Mindy Fung-Lum Lo Cara Elisabeth Loevs Scott Brian Lofgren Kevin Carl Long Stephanie Marie Long Paul A. Longo Kerry Elizabeth Loreto David James Luongo Candy Aguila Magaña Srividya Mahadevan Allen Major Maria Jeanne Malbroux Anjali Malik Shahrukh Malik On On Man Sarah Augusta Mandato Ajay Mantha Kevin Dev Maragh Elizabeth Joy Marave Kevin Paul Marquez

Holly Kathleen Martin Stephanie Anne Martin Lourdes Susana Martinez Neena Ishwari Marupudi Michael Richard Mastrangelo Teresa Gina Matejovsky Emily Kate Mayer Kate Marisa Mazza Geoffrey Martin McCann Stephen Andrew McCartney Joseph Gregory McDermott Heather LaRue McGee John Andrew McGrath Benjamin Mark McKay Allison Grace McNickle Maura Rose McTague Thomas William Meaney Vanessa Abigail Menaged Ioana Luminita Mera Dawn Michelle Merguerian George Wilson Merrell Kian Messkoub Joel Tso-ho Meyer Christopher Kelly Miller Jane Miller Kyle Haigh Miller Lauren Jessica Miller Christina Sunggi Min Jubeen Moaven Michelle Elizabeth Mohr Michelle Helena Moniz Elizabeth Jean Moore Bethany Caroline Morehouse Christopher Brian Moriarty Brian Cornelius Morley Robert Michael Morrison Andrew Howard Moskowitz Carolyn Anne Moss Kristen Leigh Mugford Nicholas Muntean Sonia Rasiklal Nagda Anand Kumar Narayan Daniel Matthew Naturale Ashok Sivaraman Navar Christopher Mark Nelson Jonas Allan Nelson Rebecca Marie Nelson Sasha Naa-Riza Nelson Ilana Neuberger Amy Noel Newell Erina Meemei Ng Yewade Ng John Hoang Nguyen Jonathan Michael Nizar Justin Humphrey Nolan Joe Andrew Nuni

Brian Patrick O'Kelly Robert James Oldt III Laura Lee Olzacki Aaron Howard Ong Daniel Steven Ong Helena Marie Orbach Daniel Patrick O'Reilley Markéta Ornová Wilson Orvis Heather Elizabeth Otto Jin Michael Packard Ryan R. Packard Matthew Un-Beum Paek Dave Ashish Pai Hua-Han Pai Jamie Lee Palaganas Jenny H. Pan Alexis Iiman Pappas Alexander Jungho Park In-Kyu Park Susan Soo Park Sarah Elizabeth Parkinson Pavel James Pasquill **Bijal Javantilal Patel** Nishant Dinesh Patel Heidi Louise Pearce Samuel David Permutt Evan Terry Perperis Carmine Vincent Petrone An Thien Hong Phan Nancy Katharine Picknally Audrey Leslie Pinn Scott Linton Pitz Jamie Lynn Planck John Walter Podurgiel Alan Scott Polackwich Jr. Michelle Anastasia Polley Eva Poon Meera Vrajlal Popat Jonathan Edward Post Frank Anthony Potucek Annelise Pruitt Rebecca Shea Pyne Jun Beom Pyon Michael Patrick Quinn Mohammed Adil Qureshi Samantha Marie Raggi Madhav Raina-Thapan Justin Kazuhiro Rajendra Ivonne Saidé Ramirez Prashanth Sadashiva Rao Deepthi Martha Reddy Sriram Keesara Reddy Kelly Marie Reeves Matthew Robert Righter Dushon DeVere Riley

Mark Edward Riso Andrew Morley Roberts David Craig Roberts James Caryl Roberts Kyle Stewart Robinson Samuel Adam Rogers Emilie Katherine Romeiser April Delacruz Rongero Daniel Moses Rosenthal Ana Lauren Rosner Ali Renee Rosof William Marshall Ross Megan Suzanne Rudinsky Helen Emily Rule Christopher Paul Said Meriem Idris Said Jennifer Junko Saito Ali Altaf Saleem Haneefa Tasleem Saleem Zachary H. Samalin Henry Berval Samson Jessica Noelle Sapienza Adhiraj B. Sarpeshkar Joanna Farem Satkowitz Zachary Nicholas Saxanoff Lindsay Morgen Saxe Adam Robert Schenker Robert Ross Scherr Elizabeth Lynn Schlicher Aaron Michael Schott Jason Andrew Schuman Raphael Daniel Schweber-Koren Samyra Cherrie Sealy Jennifer Anne Segawa Matthew Scott Sekerke Anuradha Gomanthy Seshadri Mark Edward Shaffer Nazia Sabah Shamsuddin Natalie Rae Shapero Sumit Sharma Elizabeth Nicole Shaw Shanti Kiran Shenoy Lauren Michelle Shevchik Eun-woo Esther Shim Jane Jin Yong Shin Shin Simon Shoji Aaron Michael Shulman Feroze Yazdi Sidhwa Suzanne Amanda Siefert Erin Melissa Silverman Stephen Aaron Silverman Timothy A. E. Slack Colin Fitzgerald Slemenda Craig Robert Smith Paul Michael Smith

Christopher Matthew Smolyn Stephen Alec Smyers Shelly Ann Solomon Diane Young Song Junkyong Song Mark Jacob Sorokin Shenita Karol Spencer Sven Thomas Stafford Michael George Stankus Karen Maria Stanley Emily Austin Stecker James Stevenson Katharine Peer Stevenson Elizabeth Helen Stewart Matthew Clavton Stoffel Gregory Lee Stonerock Jr. Benjamin John Stopper David J. Stout Jamie Allison Stratton Christine Michelle Stuart Ian Paul Stumpf Myung Ji Christine Suh Jason Paul Sulkowski Whitney Alison Sullivan-Lewis Shahjahan Sultan Stephanie Ning Sun Hidehiro Takematsu Christopher Pascal Tallent Jennifer Tan Teerath Peter Tanpitukpongse Chad Jacob Tarabolous Matthew Kerson Taylor Michael Jerome Tchorni Rachel Eve Tehrani Kevin Farrell Telford Rebbeca Miriam Tesfai Sadena Thevarajah Oluwakemi Eniola Tomobi Christopher Mario Torsiello Kimberly Linda Townsend Rebecca Lynne Townsend Michael Tuan Tran Phuong Tu Tran Julie Elizabeth Tremaine Man-wing Joanne Tsui Colby James Umbrell Rachana P. Vajjhala Steven Peter Vallone Sara Courtney Ingrid Van Cleef Sunitha Vemula Adriana Michelle Verleysen Laura O'Connor Vernikoff Matthew Lepore Vestal Adria Rita Villar Anand G. Vimalassery Anuja R. Vora

Thuy-Anh Hoang Vu Timothy Robert Wagner Megan Katherine Waitkoff Andrea A. Walker Ionathan Brett Wallach Ryan Christopher Walsh Pong-Jeh Wang Sean Michael Ward Heather Bronwyn Warnken Tanya Shermanda Weekes Himali Menaka Weerahandi Schuyler Klindt Weiner Erica Lynn Weiss Meghan Heather Werner Thomas Wilkins West Tiffany Davis Whelan Crystal Dawn White Joseph E. White Ryan Michael Williams Anastasia Marie Wincorn Daniel Jacob Winnick Marlena Elizabeth Wittelsberger Glenn Mitchell Wolfe Jr. Eleni Deena Wolfe-Roubatis XiXi Wong Samantha Christina Woo Seung-hyun Woo Iulia Wu Kevin Chi-Heng Wu Ye-Min Wu Fang Xu Ruyin Xue Vishal Yajnik Laura Marie Yankowski Ting Sum Lydia Yee **Pomin Yeung** Chong Kun Yi Brian Bomsoon Yim Shamira Jeanine Young Alfred Brian Yu Chung Bin Choi Yu Da David Yu Michael Thomas Yuhaniak Steven Edward Zampieri Maxim Zaporozhski Karen Marie Zeleznock Paige Natasha Zeller Michael Joseph John Zennario Chen Zhao Brandon David Zonker

### Performers Certificates

The Peabody Conservatory of Music

Adam N. Waller, Saxophone

#### **Bachelors** of Music

## The Peabody Conservatory of Music

Jessica Lauren Alberthal, Viola Eric Beach, Percussion Kimberly Benninger, Horn Jessica Elaine Bickel, Oboe Kevin Lee Biely, Trombone Louisa Catherine Blood, Violin Michael Nathaniel Boateng, Bassoon Rachel Allison Bock, Percussion Daniela Catherine Bracchi, Piano Marla Teresa Bracco, Violin Georgina Constance Cardone, Oboe Paul James Carroll, Organ Megerete Hsi-Han Chang, Piano Wen-Shan Chen, Oboe Kevin P, Clarke, Percussion Natalie Rose Conte, Voice Danielle Louise Crumb, Oboe Lauren Dannelly, Recording Arts and Sciences and Violin Daniel Thomas Davis, Composition Emily Margaret Engle, Horn Hunter Lane Fike, Recorder Erin Malia Firnhaber, Voice Tara Francke, Flute Benjamin Keely Frock, Jazz Trumpet Christopher Joseph Gainey, Composition and Guitar Tao Ge, Trumpet Diana Marie Gibbs, Harp Grant Austin Boyd Gilman, Violin Jonathan P. Greeney, Percussion Christopher Eric Hamlen, Double Bass Rose Mary Hammer, Saxophone Hae-Jeong Han, Violin Timothy Michael Hartman, Recording Arts and Sciences

Clarinet Timothy Yuan-Ting Hsu, Piano Jesse Edward Irons, Violin Marci Michelle Jackson, Horn Laura Jordan, Percussion Benjamin Jinsoo Kim, Piano Jeanette Hyejin Kim, Piano Jiyoung Kim, Violin Marissa Beckley LaBant, Flute Somyoung Lee, Piano SooYeun Lee, Violin Elizabeth Segal Levin, Harp Robert A. Lewis, Saxophone Yuri Liberzon, Guitar Kenneth Hin Joong Lun, Trumpet Michael Hon-Chiu Mak, Composition Benjamin Thomas Mason, Composition James Owen McCain, Saxophone Jeffrey Stephen McDonald, Tuba Lucas Edward Naden, Guitar Paul Edward Nelson, Composition Timothy Charles Nelson, Composition Matthew Nichols, Guitar Jae-shin Noh, Violin Laura Tait Norton, Violin Sungho Paik, Organ Anna Youngsun Park, Violoncello Nikos A. Pittas, Violin Leo Rangel III, Music Education and Saxophone Joung-Hwa Rhee, Violin Elizabeth Anne Robinson, Trumpet David Lee Ruest, Violin Yuko Sato, Percussion Loren Stata, Recording Arts and Sciences Elizabeth H. Stewart, Voice Brian James Thompson, Recording Arts and Sciences Kurt Charles Uttenreither. Guitar and Music Education Rachana Vajjhala, Piano Adam N. Waller, Music Education Kate Weber, Piano Melanie Lynne Zayas, Voice

Nicholas Mark Homenda.

#### The School of Nursing

#### Bachelors of Science May 20, 2004

Elizabeth Ellen Babin Ruth Anne Beutler Elisa Schneider Blum Sharyn Marie Boissevain Jennifer Burns Kathleen Mary Burroughs Jace Haylings Chalon Morgan Elizabeth Clark Stacy Charlene Crane John Eric Cranmer Caroline E. Curtis **Jill Ann Daniell** Cynthia Yolanda Diaz Tanya Melissa Dierksheide Jennifer Anne Donohue Tresa Kaur Dusaj Courtney Jill Edwards Sonja Hayden Emerson Katherine Elizabeth Ernst Megan Kelly O'Brien Gold Thomas M. Haberle Tamalyn Joy Hack Sara Jean Hallam Shawna A. Heffernan Megan Alicia Hoffmann David Geoffrey Hunt Sally Suoi Huynh Melissa Kay Ilgen Dana Jones Rebecca L. Joplin Rebecca Ruth Keltner John Edward Kerr Christopher Erik Killam Jennifer Marie LaFont Olive Elango Lobe Vanessa Alexia Makarewicz Jeretha I. Mangahas Amy Elizabeth Maxted Kelly Marie McDonald Alexis Ann McFarland Danielle Marie McQuigg Christopher Robert Nester Jessica Little Noves Samantha Paramesvaran Melissa Ann Pasteris Jigna H. Patel Amy Melissa Pettler Yvonne Elizabeth Raphaelson Sara Ann Rocheford lennifer Brie Rock Shannon Jean Root Monika Rozunilowicz

Jocelyn Cunanan San Mateo Stephanie Lynn Schluderberg Shelly Patricia Seaman Erinn Elizabeth Sosa Bethany Sharon Toliver Christina Lee Ling Tom Jessica Brook Tompkins Amy Suzanne Turgeon Caryl Antoinette Turner Nyree Dawn van Maarseveen Nicole Marian Ventura Lisa Annette Washington Jennifer Ann Werthman Lai Sze Wong

## Bachelors of Science July 23, 2004

Rebecca Lynn Abel Naa Atsoi Abordo Michael Iheukwu Agugo Mary Ahn Rebecca A. Allen Karen M. Allingham Courtney Lynn Anderson Catherine Anne Atwater Katherine Erin Barry Olga Vladislavovna Baturenko Marguerite L. Baty Kristy Sharon Bennett Michelle Anne Berardi Michelle Rayssa Bezos Rebecca Ann Birgel John Owen Bonner Rachael Christina Caputo Margaret Ann Carpino Megan Rawlings Challinor Carol Jeannette Chandler Norman Oliver Clarke Alisha Jane Clinger Erin Lynaugh Connelly Kelly Ann Conroy John Ryan Cotterell Kristen Elizabeth Cox Naomi Caroline Crosen Hiral Vasant Dudhwala Nicholas R. Farrey Karlene Renee Floersch Elizabeth Leigh Fricke Marci Gleicher Lisa Ann Goldstein Stephanie Leigh Gorman Laura Marie Grant Laura Kristin Greene Brian Alan Guth

Lindsay Marie Heberling Rebecca Rae Heck Elizabeth Katherine Hilton Sophia Li-shin Hsu Lori Beth Hyder Alison Marguerite Ivey Charles Edward Jacobs Kathleen Ann Janosko Marcy Joy Kalogiannis Jenny Yen Kang Heidi Mary Kapustka Jennifer Monroe Kerney Christina Buraporn Khaokham Erika Henkes Kiefer Ji-Young Kim Kimberly Hope Kinstler Karen Ann Klima Susan P. Koo Amber Beth Krause Ansu Mary Kuruvilla Rebecca Jane Laudenberger Amy Lynn Lavarias Kristin Ann Lemko Sophia Lichenstein-Hill Lauren Michelle Magnifico Keith G. Marin Michael James Marino Frances Placido McCarey Jeanne Marie McCarter Diane Elaine McFadden Maureen Patricia McGee Aisling Clare McGuckin Kelly Jessica Meagher Jennifer Anne Menhennett Nicole Alice Mills Rachel S. Miness Jodi Shinobu Miwa Kimberly Irene Morse Sarah Katherine Munday Jillian Margaret Murphy Rachel Debra Neill Alexander George Ober Jr. Jan Miriam Oosting Zoë Alexandra Perrone Jamie Elizabeth Peterson Leah Denise Peterson Hilary Cristin Poan Ejeanée D. Oueen Sharon Elaine Huertas Radoc Scott Thomas Rapson Alison Racheal Roberts Jacqueline Kathleen Ross Jessica Armstrong Scheidt Lilly Hamilton Schott Nathan John Schwab Paul Michael Schwartz

Molly A. Sevareid Monica Irene Shelley Amanda Elizabeth Slagle Joanne Spafford Samantha L. Stirling Lauren Ann Stoian Nicole Elizabeth Strauch Melissa Sue Tharnish Christy Sarah Thiessen Courtney Nicole Todd Dannielle Bina Toner Marla Alexandria Turco Susan Renee Umstot Gerry Edward Vergason Sherri Ann Wheeler Kathryn Dorothy Whitchurch Angela Estella Wilkins Deborah L. Williams Stacey Renee Williams Jennifer Colleen Winfree Erin Katlyn Wipff Alysia LoAnn Woods Kathryn Veronica Young

#### Undergradnate Certificates

## The School of Professional Studies in Business and Education

Gene David Gallaher, Information Technology Foundations Regina Sue Maddy-Norton, Information Technology Foundations Shannon J. Morey, Information Technology Foundations Douglas C. Reeder, Information Technology Foundations Jeffrey Alan Scheeler, Information Systems

#### **Bachelors** of Science

## The School of Professional Studies in Business and Education

Imran Abbas, Information Systems Kamran Abbas, Information Systems Margaret Elizabeth Adamo, Interdisciplinary Studies Adnan Ahmad Akhtar, Information Systems Timothy Lee Allgire, Business and Management Jacobo Alberto Angel, Business and Management Mohammad Atif. Information Systems Imran Awan, Information Systems Nathaniel Jerome Barber, Management Kenneth Raymond Berends Jr., Information Systems Chirag Bhavsar, Information Systems Shaun Michael Blakeslee, Business and Management Charles Edward Boyd, Business and Management Jessie Brunty, Business and Management Janet Rose Ann Burrowes, **Business and Management** William Peter Bury, Information Systems Dianne M. Campbell, Business and Management Timothy M. Carroll, Information Systems Tovonia T. Copeland-Brown, Management Regina Marie Custer, Management Pamela A. Datcher, Management Allen Lee DeMoss, **Business and Management** Tracy Eva DiBerardino, Business and Management David Matthew DiCocco, Information Systems John Thomas Fitzgerald, **Business and Management** Joan Elizabeth Flister, Business and Management

Nancy Caroline Fulton, Information Systems Michael J. Garfunkel, **Business and Management** Robert Gaskins Jr., Management Christine-Marie Gervais Gedansky, Information Systems Angel Denise Goode, **Business and Management** Padro L. Gould, **Business and Management** John Rudolph Greene Jr., Management Victor Arturo Grinblat, Information Systems Douglas Wood Hamilton III, **Business and Management** Larry E. Harmel, Management Jessica Henemyre-Walsh, Business and Management Joseph David Hooe, **Business and Management** Ethan Nathaniel Howard, **Business and Management** Leonard Jaramillo, **Business and Management** Monica Jimenez, Information Systems Zinnaeah Danielle Johnson, **Business and Management** Hassaan Karim. Information Systems Jacob Mark Kishter, Management Sandra Patricia Kless, Interdisciplinary Studies Eric Charles Kuhn, Information Systems Nina Jacinta Kulacki, Information Systems Michael Kushnir, **Business and Management** Derrick Kevin Lee, Management Sherree Evet Lee, Management Kevin Edward Lepley, **Business and Management** Eric Taron Levenberry, Management Krieg Matthew Lloyd, Information Systems Sean Patrick Mahoney, Management

Victoria G. Mahoney, Interdisciplinary Studies Tiffany Pleshette Merritt, Interdisciplinary Studies Constance Necole Minor, **Business and Management** Venina Elaine Mitchell Rice, Information Systems Marcia M. Moraes, Information Systems Phillip Duane Morse, Management Mark Gottlieb Muhler, Information Systems André Frederick Murray Jr., Interdisciplinary Studies Scott Allen Navarro, **Business and Management** Therese Hortense Ngo Bikoi, Information Systems Daniel R. Nichols, Management Charles Patrick Noonan, Information Systems David Johnson Okorie, Information Systems Ashish Pathak, Information Systems William Joseph Perkins, **Business and Management** Matthew Anthony Peters, **Business and Management** David A. Petit, Information Systems Michele Theresa Peyton, **Business and Management** Christina Margaret Potter, **Business and Management** Melvin Demetrius Powell, Management Mark Alan Presslein, **Business and Management** Samuel Quansah Quarcoo, Interdisciplinary Studies Jane M. Reynolds, **Business and Management** Leon Richardson. **Business and Management** Christopher Robinson, Information Systems Stephen William Rollins, Business and Management Regina Maria Saunders, **Business and Management** Steven Michael Smith,

Management

Shirley H. Stewart, Interdisciplinary Studies Ameriga Strache, Interdisciplinary Studies Allen Edward Strong, Business and Management Nora Taylor, **Business and Management** Tiffany Rae Theis, Information Systems Paul S. Tignor, **Business and Management** Henry G. Trabert, Management Frank Edward Troska, Management Agnes Vadasz, **Business and Management** Jeffrey Allen Wagner, Information Systems Wayne William Wanless, Information Systems Tammy Kay Watson, Information Systems Heber Elijha Watts Jr., Management Verna Jean Whittenburg, Information Systems Linda Marie Williams, Interdisciplinary Studies Eboni Wise, **Business and Management** 

#### **Bachelors of Liberal Arts**

The School of Professional Studies in Business and Education

Arlene H. Deaton, Social Sciences

### Gradnate Certificates in Business

## The School of Professional Studies in Business and Education

Albert J. Aboulafia, Business of Medicine Stephen Fulton Adelaar, Investments Hoover Adger, Business of Medicine Cameron Akbari, Business of Medicine

Irina Anisimov. **Business of Medicine** Martin Auster, **Business of Medicine** Mary Rose Batuure, Investments June Ellen Becht, Skilled Facilitator Ingrid Black, Business of Medicine Henri Blech, Investments Elena Boley, Business of Medicine Roumen Iliev Boudin, Investments Sandra Brooks, **Business** of Medicine Cassandra Denise Brown, Hopkins Leadership Development Program Ian Lee Brown, Seniors Honsing and Care Kevin Michael Bruggeman, Investments Michael S. Burke, **Business of Medicine** Noelia Cantu, **Business of Medicine** Lillian Cardona, **Business of Medicine** Paula Cattaneo. **Business of Medicine** Geetha D. Chandrasekhar, **Business of Medicine** Peter Cheng, **Business of Medicine** Dickson S. Cheung, **Business of Medicine** Paul J. Christo, **Business of Medicine** Anna Chroni Zouzoulas, Investments Charles R. Clark, **Business** of Medicine William Clarke, **Business of Medicine** Lisa Coronado, **Business of Medicine** M. Katie Coyle, **Business** of Medicine Robert Carl Cregg, Investments Barbara J. Cvek, Investments Ajit Das, Business of Medicine Steven Davison, Business of Medicine Robert Delapenha, Business of Medicine

Jasmeet Anand Dillard, Investments Dianne Anthea Natasha Dreesman, Information and Telecommunication Systems Samuel Durso, **Bnsiness** of Medicine Lars Ellison, Business of Medicine Olumuyiwa Oladapo Famodu, Investments Davis Farvolden, **Business** of Medicine Alessio Fasano, **Bnsiness** of Medicine Daniel M. Feinberg, **Bnsiness** of Medicine Bernard K. Fleishman, Investments Eve Marie Gever, Information and Telecommunication Systems Kim Goring, Business of Medicine Martina A. Grunwald, **Bnsiness of Medicine** Stuart Henochowicz, **Business** of Medicine Christopher Michael Henvan, Information and Telecommunication Systems Cynthia Heather Hernan, Skilled Facilitator Nicholas Holmes, **Bnsiness of Medicine** Sunanda Holmes, **Business of Medicine** Christina Eunji Hong, Information and Telecommunication Systems Jason M. Hoody, Investments Brian Stephen Hook, Investments Jean-Elizabeth Nemphos Hubbard, Investments Philip Andrew Hutinet, Information and Telecommunication Systems Abayomi Ige, **Bnsiness** of Medicine Yitzchak S. Jacobovitz, Investments Dennis L. Jepsen, **Bnsiness of Medicine** Barbara Ann Jessup, Information and Telecommnnication Systems

Raiiv Ihaveri, **Bnsiness** of Medicine Laurel Iones. **Basiness of Medicine** Irani Kaikobad. **Business of Medicine** Murray A. Kalish, **Bnsiness of Medicine** Mark D. Kelemen, **Business of Medicine** Christopher Kim, **Bnsiness** of Medicine Hyun Kim, Bnsiness of Medicine Stephen George Kline, Investments Barry Kramer, **Business** of Medicine Michael Scott Kulik, Investments Carmelita Argubie Labriny, Information and Telecommnnication Systems Bertram Lacey, **Business of Medicine** Samuel Lin, Business of Medicine Yang Lu, Bnsiness of Medicine Jeanne Lumadue, Business of Medicine Carolyn Magee, Business of Medicine Kevin M. Maher, Information and Telecommunication Systems Sameer Malik, Investments Benjamin A. Malkiel, **Business of Medicine** Michael Patrick Maloney, Investments Angela Mancuso, **Business of Medicine** Suzanne Leigh Marshalonis, Information and Telecommunication Systems Brian McKinnon, **Business of Medicine** Suzanne McLaughlin, **Business** of Medicine Francisco Jose Mendez-Tellez, Investments Isis N. Mikhail, Information and Telecommunication Systems Myechia Minter, **Business of Medicine** Ernesto Molmenti, **Business of Medicine** 

Randy Joseph Naper, Information and Telecommunication Systems Tara Stefanie Nussbaum, Investments Ryan M. O'Connell, Information and Telecommunication Systems Gail L. Olson, Investments Sean David Oswald. Information and Telecommunication Systems Gisela O. Pazmino, Investments Amber Marie Perry, Investments Susan Phelps, **Bnsiness** of Medicine Todd Ponsky, **Business** of Medicine Luis Quinones, **Business** of Medicine H. Matthew Quitkin, **Business** of Medicine Rudra Rai, Business of Medicine Arjun Ravindra, Information and Telecommunication Systems Koon Ho Rha, **Bnsiness** of Medicine Kimberly Ann Riggs, Information and Telecommunication Systems Carey Roesler, **Business of Medicine** Haya Rubin, Business of Medicine Eusebio Saenz, Investments Paola Saenz, Investments Gaelle Seide, Investments Navin Singh, Business of Medicine Andrew W. Stone, Information and Telecommunication Systems Jennifer Ann Strasburger, Information and Telecommunication Systems Denise Williams Streeter. Investments Marc Sussman, **Business of Medicine** Akvile Sweetman, Investments Lorn Andrew Taylor, Information and Telecommunication Systems Rajiv Thakkar, **Business** of Medicine Truett Aaron Tooke, Investments

Robert Barret Tookey, Investments Cynthia E. Tucker, Skilled Facilitator David A. Utzschneider, **Business of Medicine** Robert Allen VanGorder, Skilled Facilitator Stanley Watkins, **Business of Medicine** Cedric Donald Weatherly, Information and Telecommunication Systems Sherry J. Weinstein-Mayer, **Business of Medicine** Nirit Weiss, Business of Medicine Michael Wertz, **Bnsiness** of Medicine Trent L. Wertz, Investments Marcea Whitaker, **Business of Medicine** Robert H. Williams Jr., **Bnsiness of Medicine** Linda Wisniewski, **Business of Medicine** Timothy E. Yarboro, **Business of Medicine** Levent Yoruk, Investments Michael Paul Zink, Information and Telecommunication Systems

## Graduate Certificates in Education

## The School of Professional Studies in Business and Education

Joseph George Addis Jr., Leadership in Technology Integration Joseph George Addis Jr., Administration and Supervision Kelly Marie Adolphi, Leadership in Technology Integration Linda Ann Alprin, Leadership in Technology Integration Rachel V. Amstutz, Administration and Supervision Rachel V. Amstutz, Leadership in Technology Integration Nicolle Anthony, Effective Teaching of Reading

Angelique Renee Arrington, Administration and Supervision Elizabeth Ann Augustin, Administration and Supervision Irene Solavide Bademosi, Administration and Supervision Leticia Eng Barr, Leadership in Technology Integration Dareen Economides Barrios, Education of Students with Severe Disabilities Dareen Economides Barrios, Education of Students with Autism and Other Pervasive Developmental Disorders Kristie Lynn Battista, Administration and Supervisiou Melissa Louise Baxter, Administration and Supervision Nashae M. Bennett, Administration and Supervision Bridget Moira Benzing, Leadership in Technology Integration Bridget Moira Benzing, Administration and Supervision Tanya Lynn Boerger, Education of Students with Autism and Other Pervasive Developmental Disorders Nicole Joslyn Bolton, Gifted Education Nicole Joslyn Bolton, Teacher Leadership Philip Wayne Bonner, Effective Teaching of Reading Robin Lisa Bowden, Administration and Supervision Paula Andrea Canard, Effective Teaching of Reading Noemi H. Carmack, Administration and Supervision Rebekah Victoria Carney, Education of Students with Autism and Other Pervasive Developmental Disorders Victoria Ann Casey, Administration and Supervision Cynthia M. Chambers, Administration and Supervision Aaron Clark Jr., Administration and Supervision Merlene Yvonne Clarke, Differentiated/Inclusive Education: Advanced Methods for Instruction

Merlene Yvonne Clarke, Administration and Supervision Marjorie Strumpf Cohen, Teacher Leadership Marjorie Strumpf Cohen, Gifted Education Deborah Blackwell Colbert, Administration and Supervision Michael Carlos Concepcion, Leadership in Technology Integration Michael Carlos Concepcion, Administration and Supervision Craig Donald Cooper, Administration and Supervision Veda Amelia Cooper, Administration and Supervision Karen Michelle Cross, Education of Students with Autism and Other Pervasive Developmental Disorders Anne Margaret Dardarian, Administration and Supervision Lisa Jean Davis, Administration and Supervision Keisha Monic DeLoatch-Nandalal, English as a Second Language Instruction Maribeth Donohue, Assistive Technology for Communication and Social Interaction Sorava Cinira Dos Santos, Education of Students with Autism and Other Pervasive Developmental Disorders Kristen Reichardt Doyle, Effective Teaching of Reading Jill F. Eidelman, Education of Students with Severe Disabilities Jill F. Eidelman, Education of Students with Autism and Other Pervasive Developmental Disorders Kim L. Eley, Administration and Supervision Dan V. Ferandez, Teaching in Higher Education Krista Renee Fiabane, Gifted Education Siobhan Marie Fitzgerald, Effective Teaching of Reading Megan Rose Fletcher, Education of Students with Autism and Other Pervasive Developmental Disorders

Rosemary Glasgow Ford, Administration and Supervision Annie P. Foster. Administration and Supervision Paula Knox Gary, Administration and Supervisiou Humeyra Genc, Technology for Multimedia and Internet-Based Instruction Candace Sheree Gibbs, Administration and Supervision Young-chan Han, Administration and Supervision Andrea Michelle Harmon, Administration and Supervision Ellen Schlie Hill, Administration and Supervision Therese Anne Iwancio, Administration and Supervision LaBrina Katherine Alberta James, Administration and Supervision Linda Jensen, Administration and Supervision Angela D. Johnson, Administration and Supervision Robert Everett Johnson Sr., Data-Based Decision Making and Organizational Improvement Robert Everett Johnson Sr., Administration and Supervision Dorothea Elizabeth Jordan, Administration and Supervision Pora Ju, Instructional Technology for Web-Based Professional Development and Training Karen Kakoda, Administration and Supervision Rachel Albert Kastner, Gifted Education Sandra A. Keaton, Administration and Supervision Teri-Lynn Koch, Leadership in Technology Integration Kelly Michele Healey Krownapple, Administration and Supervision Michael Joseph Kryder, Administration and Supervision Jennifer Sue Lambros, Administration and Supervision Stacey Ann Latch, Education of Students with Autism and Other Pervasive Developmental Disorders

Gina Breunig Laupert, Education of Students with Autism and Other Pervasive Developmental Disorders Tricia S. Lawrence, Administration and Supervision Tricia S. Lawrence, Effective Teaching of Reading Michele Hee Lee, Administration and Supervision Michael F. LeFlore, Administration and Supervision Rebecca Sue Lindsey, Education of Students with Autism and Other Pervasive Developmental Disorders Rebecca Sue Lindsey, Education of Students with Severe Disabilities Nancy Diane Loiacono, Discipline and Positive Behavioral Management Nancy Diane Loiacono, Administration and Supervision Sharon Gail Mabbott, Teacher Leadership Stan M. Malm, Teaching in Higher Education Benjamin Yehezkel Marwick, Administration and Supervision Karen Mary Mason, Administration and Supervision Tricia Kathleen McCarthy, Administration and Supervision Shari Lynn McWain, Administration and Supervision Annette Messier, Education of Students with Autism and Other Pervasive Developmental Disorders Annette Messier, Assistive Technology for Communication and Social Interaction Allison Lynn Miller, Administration and Supervision Cara Moulds, Administration and Supervision Lisa Erin Olson, Teaching in Higher Education Erin Ruth O'Toole-Trivas, Administration and Supervision Tiffany Michele Parli, Administration and Supervision Regina F. Patterson, Administration and Supervision

Merope Pavlides, Education of Students with Autism and Other Pervasive Developmental Disorders Gwelan Peterson, Effective Teaching of Reading Carrie Ann Piper, Administration and Supervision Kenneth W. Pyles, Education of Students with Severe Disabilities Kenneth W. Pyles, Education of Students with Autism and Other Pervasive Developmental Disorders Kimberly Ann Quintyne, Administration and Supervision Sandra Sue Reece, Leadership in Technology Integration Sandra Sue Reece, Administration and Supervision Elaine Ruth Reid, Administration and Supervision Martin Jeffrey Rochlin, Administration and Supervision Victoria Anne Sarro, Administration and Supervision Diane Denise Savage, Administration and Supervision Ruth Sody Savanuck, Effective Teaching of Reading Jacob Samuel Sclar, Administration and Supervision Sarah Willard Scott, Administration and Supervision Martin J. Sears, Administration and Supervision Carol A. Seckington, Education of Students with Severe Disabilities Carol A. Seckington, Education of Students with Autism and Other Pervasive Developmental Disorders Michael G. Senisi, Administration and Supervision Catherine Lynn Shandrowsky, Leadership in Technology Integration Catherine Lynn Shandrowsky, Administration and Supervision Karen J. Shannon, Administration and Supervision Bette C.S. Simmon, Administration and Supervision

Jessica Singleton-Ezell, Administration and Supervision Eileen M. Siple, Education of Students with Autism and Other Pervasive Developmental Disorders Eileen M. Siple, Education of Students with Severe Disabilities Sarah Elaine Sirgo, Administration and Supervision Katherine Diane Smith, Effective Teaching of Reading Michelle Lynn-Smith, Administration and Supervision Richard Carroll Smith Sr., Teaching in Higher Education Helen K. Steele, Administration and Supervision Shanti P. Stone, Administration and Supervision Anne Katherine Swartz, Administration and Supervision Kimberly Jeanne Tucker, Administration and Supervision Kimberly Jeanne Tucker, Differentiated/Inclusive Education: Advanced Metbods for Instruction Susan K. Turnbull, Administration and Supervision Heather Louise Van Horn, Education of Students with Autism and Other Pervasive Developmental Disorders Tara Lee Wagner, Education of Students with Autism and Other Pervasive Developmental Disorders Lisa Favette Warnick, Administration and Supervision Karen Marie Watson, Leadership in Technology Integration Janis Belinda Wedington, Administration and Supervision Sharon Weems, Education of Students with Autism and Other Pervasive Developmental Disorders Sharon Weems, Education of Students with Severe Disabilities Allison Michelle Weese, Teacher Leadership

Allison Michelle Weese, *Gifted Education* Gail Ann Welty, *Administration and Supervision* LaShonne Marie Wright, *Administration and Supervision* Melinda H. Wright, *Administration and Supervision* Melinda H. Wright, *Effective Teaching of Reading* Monique Champagne Yates, *Administration and Supervision* Michael James Zarchin, *Administration and Supervision* 

#### Masters of Science

The School of Professional Studies in Business and Education

Martin Ndehfru Abegly, Special Education Elise Marie Adams, Marketing Steven E. Adams, Information and Telecommunication Systems Joseph George Addis Jr., Education Stephen Fulton Adelaar, Finance Mike K.A. Agha-Khan, Information and Telecommunication Systems Nelofur Sohail Ahmed, Information and Telecommunication Systems Monifa Greene Ajibawo, Information and Telecommunication Systems Jonathan Jude Allaire, Education Kimberly Ann Allen, Education Meredith R. Allen, Education Julie Elizabeth Altman, Counseling Rachel V. Amstutz, Education Adelaide Lenora Anderson, Information and Telecommunication Systems Telvenia Andinasari, Information and Telecommunication Systems Brian Keenan Andrews, Organization Development and Hnman Resources

Lisa Marie Anthony, Marketing Isaac Kwadwo Apea, Information and Telecommunication Systems Jeffrey S. Armiger, Real Estate Calandra Yvonne Arrington, Counseling Nadya Elizabeth Aswad, Information and Telecommunication Systems Sunny Davies Atteh Chi, Special Education Melanie Augur, Marketing Angela Lynn Avery, Counseling Emeka Ejieah Azubike, Information and Telecommunication Systems Robert Baer, Management Dorothy Lynn Baker, Education Kenneth Eugene Baker, Real Estate Linda Carol Baker, Business Andrew T. Baldwin, Information and Telecommunication Systems Colantha N. Baldwin, Information and Telecommunication Systems Paul Alan Balek, Information and Telecommunication Systems Tony M. Ball, Management Jeffrey A. Banocy, Management Cindy Brown Barnes, Organization Development and Human Resources Sabree Nadiyar Barnes, Education Dareen Economides Barrios, Special Education Kimberlyn Joy Bauhs, Organization Development and Human Resources John Thomas Bays, Information and Telecommunication Systems David Edward Beach, Management Edith Carlene Beasley, Education June Ellen Becht, Organization Development and Human Resources Trina Natasha Bell, Counseling

Elzora Bellamy, Education Jennifer K. Belles, Applied Behavioral Science Tracy M. Belski, Education Tina Kelley Bennett, Education Bridget Moira Benzing, Education Elizabeth A. Bernard, Education Joseph Berret, Special Education Christopher Scott Berry, Education Eileen Marie Berry, Management Yuanzheng Bian, Finance Wendy Kathryn Bickell, Education Dianne Lynne Bisselle, Special Education Wendy Kistler Blackwell, Counseling Malka Netanya Blejer, Education Victoria F. Blum, Connseling Jason Alan Bock, Information and Telecommunication Systems Ramona Irene Bock, Connseling Tanya Lynn Boerger, Special Education Nicole Joslyn Bolton, Education Jody Lee Boone, Connseling Stephanie Wolff Boruta, Education David W. Bostrom, Management Beth Anne Bowker, Connseling Kelly Ann Bowman, Education Janet Lynn Boyko, Real Estate Margaret Ellen Boyne, Information and Telecommunication Systems Janine Johansson Bracken, Education Marc N. Brambrut, Real Estate Mark R. Breier, Information and Telecommunication Systems Christine Brennan. Special Education Joshua Broide, Education Simone Broide, Connseling Dan R. Bromberg, Information and Telecommunication Systems

Jeffrey Stuart Brooke, Organization Development and Human Resources Patrick Michael Broome. Real Estate Eric Courtney Brown, Management Kelly Nicole Brown, Special Education Melissa Charryse Brown, Special Education Michael Allen Brown, Information and Telecommunication Systems Nicole B. M. Brown, Management Kenneth George Buch, Organization Development and Hnman Resources Amber Marie Buckwalter. Education Holly Ann Bucy, Education Tracy M. Bumba, Marketing Tammy Z. Burns, Organization Development and Human Resources Angela Denise Burns-Ramirez, **Organization** Development and Hnman Resources Jaime Rose Bustamante, Connseling Daniel M. Butler III, Real Estate Kelly Kennedy Byrd, Information and Telecommunication Systems William James Byrd Jr., Information and Telecommunication Systems Cathleen White Cadoux. Real Estate Christopher Francis Callaghan, Finance Jennifer Dawn Campbell, Education Claudia V. Cappello, Finance Kevin Lee Carney, Information and Telecommunication Systems Rebekah Victoria Carney, Special Education Todd A. Carpenter, Marketing Edward R. Carroll, Business Jacqueline Darlene Carroll-Cummings, Connseling

Timothy Lynn Carter, Organization Development and Human Resources Michael Francis Carter II. Real Estate Elyse Lauren Casioppo, Special Education Maureen Maloney Cassidy, Education David Simon Castle, Education Daniel Scott Catlaw. Information and Telecommunication Systems Christopher G. Center, Information and Telecommunication Systems Peshie Chaifetz, Marketing Peter S. Chandler, Marketing Saurabh Channan, Information and Telecommunication Systems Allison J. Chapman, Management Charis P. Charitonos, Information and Telecommunication Systems Ratasit Charutrakulchai. Finance Rodolfo Chavez Sr., Information and Telecommunication Systems Kim Celeste Cherry, Education Wang Cheung, Information and Telecommunication Systems Matthew Hamilton Childs, Education Catherine W. Chipman, Education Rafaella Bittencourt Chuahy, Information and Telecommunication Systems Gary G. Chudnovsky, Information and Telecommunication Systems Becky Hee Chun, Information and Telecommunication Systems Laura Helen Cimino, Special Education Allison Clapp, Education Cassandra Adelia Clark, Special Education William Russell Clark, Information and Telecommunication Systems

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Anthony Michael DeLeonardis, Information and Telecommunication Systems Jeffery Paul Delinski, Management Jennifer Lynne Dening, Special Education Charles Jonathan Denver, Information and Telecommunication Systems Beth Alise DePasquale, Education Elizabeth Ann Dichvsyn, Management Alissa Marie Dick, Special Education Adrienne Dionne Dickerson, Connseling Jennifer Danielle DiPietro, Connseling Erinn McCarthy Dobres, Special Education John Madison Doll, Marketing Denise Davis Donahue, Education Andrea Andine Dore, Information and Telecommunication Systems Soraya Cinira Dos Santos, Special Education Kristen Reichardt Doyle, Education Dean A. Drake, Marketing Paul Adams Drehoff, Marketing Julie Kay Dubinsky, Organization Development and Hnman Resources Joan E. DuHaime, Information and Telecommunication Systems Kelly A. Duncan, Finance Sarah Estelle Dupree, Connseling Amir Dutovic, Information and Telecommunication Systems Jeanne Marie Dwyer, Special Education Kimberly Victoria Eason, Education Scott Traeye Edington, Information and Telecommunication Systems Hind M. Edrees, Special Education

Joseph Roger Edwards, Real Estate Kathleen Anne Edwards, Education Ranil Lasantha Egodahewage, Information and Telecommunication Systems Anne Catherine Eichorn, Special Education Jill F. Eidelman, Special Education Jeffrey Charles Eisenbeiser, Management Patricia Ann Engel, Education Gokhan Erdem, Information and Telecommunication Systems Victor Erevia, Management Kathleen Maureen Faber, Organization Development and Hnnian Resources Lorraine Fedder, Education Karen Clarke Ferruzza. Education Krista Renee Fiabane. Education Sandra Eskow Fisher, Special Education Siobhan Marie Fitzgerald, Education Rebecca Mary Foster, Connseling Ann Harison Fox, Education Leila Virginia Thompson Franklin, Organization Development and Human Resources Tad Aaron Franson, Information and Telecommunication Systems Bruce Fryer, Information and Telecommunication Systems Robert John Galassi, Special Education Ramon Maria Garcia, Real Estate Jon Paul Garvin, Information and Telecommunication Systems Tracy A. Gast, Management Charlotte Ann Gaylin, Education Peter Joseph Geiling, Real Estate Humeyra Genc, Education

Jennifer Renee Black Georg, Counseling Michael Anthony Gerran, Real Estate Keith Michael Gethers, Management Jennifer Mary Gibson, Organization Development and Human Resources Marjory W. Gibson, Real Estate John Alan Gill, Management Veronica Diane Gilliard, Marketing Sonja Rae Gladwin, Organization Development and Human Resources Karen L. Glooch, Organization Development and Human Resources Edward Glover, Information and Telecommunication Systems Gabriele A. Glynn, Organizational Counseling Beverly Anne Goering, Special Education Stephanie Noel Goodrich, Education Katherine Sterling Goodwin, Management Siamak O. Gorgeen, Real Estate Jennifer Ellery Greene, Education Armin Groeschel, Real Estate Jennifer Lynn Groton, Information and Telecommunication Systems Brian Vincent Gruitt, Information and Telecommunication Systems Kimberly Lynn Guarino, Marketing Amy Marie Guerke, Special Education Jacqueline Bricketto Guerry, Organization Development and Hnman Resources Veronique Colleen Gugliucciello, Connseling Laura Irene Hagy, Education Nancy Blum Haines, Organization Development and Human Resources Donna B. Hall, Organization Development and Hnman Resources

Michelle Leigh Hall, Connseling Rosemarie Monique Hall, Connseling Ionathan Brooke Halle, Real Estate JoAnne Centineo Hann, Information and Telecommunication Systems Maria Salib Hanna. Information and Telecommunication Systems Laura Ann Harding, Education Margaret Ann Harrington, Education Lois Greenberg Hartman, Organizational Counseling Shawn Marie Hastings-Yurman, Education Margot Josi Hawkins-Green, Organizational Counseling Soha G. Hefnawy, Counseling Maria "Mia" Hemmer, Counseling Alexandra Jane Hendershot, Counseling Tasha Dawn Henderson, Marketing Natalie P. Hernandez, Education Bryce Alan Hickey, Information and Telecommunication Systems Angela F. Higginbotham, Organization Development and Hnman Resources Aubrey Elizabeth Hill, Education Alvin David Hinton, Management Jennifer Paige Hoffer, Special Education Diana Jane Holmes, Special Education Angela Yvette Holocker, Education Jason M. Hoody, Finance Brian Stephen Hook, Finance Christopher Alan Hoover, Education Scott R. Hopewell, Special Education Brian James Horton, Management Roxanne Marie Huemmer, Counseling

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Todd Steven Knowlton, Information and Telecommunication Systems John Han Chung Ko, Real Estate Marie Lynn Koch, Connseling Teri-Lynn Koch, Education Marshall David Kohen. Business David William Kontaxis Jr., Special Education Donald Jeffrey Korkis, Finance Jannette Louise Kouwenberg, Connseling Virginia M. Kress, Real Estate Surva Kubba, Information and Telecommunication Systems Scott Warren Kutkat, Conuseling Eliyahu Mordechai Kutoff, Education Alexei A. Kuzmenko, Real Estate Ana Victoria Montero La Paz de Bowerman, Information and Telecommunication Systems Wing Yan Lam, Information and Telecommunication Systems Laura Maria Lanham, Organization Development and Human Resources Cathy Lynn Lanier, Management James Joseph Larkin, Information and Telecommunication Systems Kelli Downs Larson, Counseling Stacey Ann Latch, Special Education Deborah R. Lavine, Connseling Tricia S. Lawrence, Education Michael Quoc Le, Education Donald Edward Leake, Real Estate Margaret Young LeBlanc, Organizational Counseling Derrick Kevin Lee, Management Jennifer FL Lee, Information and Telecommunication Systems Jeremy Lee, Information and Telecommunication Systems

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Megan McLaughlin Manetta, Education Harel Manor, Organization Development and Human Resources Timothy Andrew Manuel, Marketing Mark Benedict Manzo, Real Estate Gregory Andrew Marchio, Management Paula Lucia Marcolin, Counseling Richard L. Marks, Information and Telecommunication Systems Shantris F. Martin, Marketing Benjamin Yehezkel Marwick, Education Jacob Mathews, Information and Telecommunication Systems Lindsey C. Mathias, Counseling Douglas Clemens Matia, Information and Telecommunication Systems Ashleigh Ellen Mattia, Information and Telecommunication Systems Nancy Barbara Maytin, Counseling Tamara Janette Maze, Marketing Vladimir Mazelev, Information and Telecommunication Systems Andrew John McCann, Information and Telecommunication Systems Joseph Thomas McCann III, Management Kathy Anne McCauley, Management Daphne Gay McCoy, Information and Telecommunication Systems Robert Odell McCullough, Management Edward McCullagh McCutcheon, Real Estate Wendy Jill McGarry, Education Joseph Nicholas McGowan, Management Allison Marie McKinney, Special Education

Mark Allen McKinney, Management Kyle Patrick McNally, Information and Telecommunication Systems James Christopher McNealey, Education Heyam Nasser Meftah, Special Education Noah Benjamin Mehrkam, Real Estate Craig Louis Meier, Information and Telecommunication Systems Maria Athena Mellis, Real Estate Francisco Jose Mendez-Tellez, Finance Selina N. Merrell, Education Annette Messier, Special Education Scott M. Mezan, Management Ericka Lynn Miller, Information and Telecommunication Systems Wei-wei Milne, Information and Telecommunication Systems Ann Nixon Minor, Special Education Ricky R. Mitchell, Management Joanne Holden Moaadel, Counseling Stephen Phillip Monteiro, Management Ginger Luann Moon, Education Deanna Moore, Education James C. Moore, Information and Telecommunication Systems Verna Mayo Moore, Education Linda Moore-Garoute, Education Linda S. Moorman, Applied Behavioral Science Bonny Jean Yuhas Moran, Organization Development and Human Resources Amy Marie Morel L'Horset, Counseling Amy Elizabeth Morelli, Information and Telecommunication Systems

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Sved Mukhtar Saeed, Information and Telecommunication Systems Eusebio Saenz, Finance Paola Saenz, Finance Heather Marie Salvatore, Special Education Sergio Francisco Sanchez, Information and Telecommunication Systems Alvin Gregory Sanders, Management Michael William Santacroce, Education Joan M. Sapienza, Real Estate Nancy Gladys Sarbah-Yalley, Information and Telecommunication Systems Mehrdad Sarlak, Information and Telecommunication Systems Juliet Kathleen Savage, Education Jeffrey D. Schaeberle, Information and Telecommunication Systems Abbe Trenchard Schlebecker, Special Education Casey Carroll Schmidt, Marketing Andrea Owen Schneider, Special Education Michael Alan Schonfeld, Real Estate Danielle Marie Schroeck. Education Catherine Marie Schroeder, Education James Andrew Schroeder, Special Education Kristopher Paul Schroeder, Information and Telecommunication Systems Jennifer Anne Schwartz, Marketing Carol A. Seckington, Special Education Alicia Beth Segel, Counseling Stephanie L. Semones, Counseling Lisa Offutt Sessa. Special Education Setthasan Settaphakorn, Marketing Dorit S. Shames, Education

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Rita Stein-Grollman, Education Lesley M. Stepney, Education Patrick H. Stewart, Organization Development and Human Resources Tiffany Charmain Stewart, Organizational Counseling Jesse Stewart Jr., Management Gregory C. Stieber, Management Della Rae Stolsworth, Organizational Counseling Michael Christopher Stoner, Information and Telecommunication Systems Jody Kristine Stover, Special Education James J. Sullivan, Information and Telecommunication Systems Kareem Lowell Sumner, Information and Telecommunication Systems Maria R. Supan, Organization Development and Human Resources Willetta Diane Sutton, Information and Telecommunication Systems Denise B. Sweat, Special Education Angela C. Sweeney, Special Education Josephine To Tam, Education Alan Roy Tarica, Information and Telecommunication Systems Marc Alan Tate, Information and Telecommunication Systems Nichole Marie Tauler, Connseling Jessica Jane Taylor, Special Education Kimberly Sue Terry, Education Brenda K. Tharp, Management June I. Thomas, Special Education Joelle Marilois Thompson, Education Tina Marie Thompson, Education Cinthea E. Thurman, Special Education Chrystal Lynn Tibbs, Management

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Allison Michelle Weese, Education Michael James Weider, Education Deborah Ellen Weiss, Organization Development and Human Resources Dawn Teresa West, Information and Telecommunication Systems Robert Arthur West, Management Jennifer Smedley Whiddon, Education Brian George White, Education Carmelita Marie White, Applied Behavioral Science Jamell Delaine White, Special Education Stephanie Anne White, Counseling Stephen A. White, Organization Development and Human Resources Daniel Wilczewski, Education Kirsten Nicole Wiley, Counseling Gerald Neil Willard II, Information and Telecommunication Systems Heather Ledell Mason Williams, Organization Development and Human Resources Keith Richard Wilson, Information and Telecommunication Systems Marcia Lanette Wilson, Counseling Gregory R. Wilt, Information and Telecommunication Systems Andrew Robert Winters, Real Estate Amanda Joy Wladkowski, Counseling Daniel Thomas Woltman, Marketing Ching Wong, Information and Telecommunication Systems Vincent Wong, Information and Telecommunications Systems Kelley Ann Wood, Marketing Chrystal M. Woodard-

Coleman, Special Education

Gail J. Woods-Waller, Marketing Kenneth Montgomery Wormald, Real Estate Melinda H. Wright, Education Andrew M. Wurst, Management Yvonne Leah Yeboah. Special Education Sagar Tatayya Krishna Yerramsetti, Information and Telecommunication Systems Taylor Ballard Yewell, Real Estate Jung Yoon Yoo, Special Education Nicole Kristin Yoshida, Counseling Jeffrey Michael Young, Management Mary J. Young, Education Sybille R. Young, Organization Development and Human Resources Nina Korssun Yudell, Business Richard Cary Zabriskie, Information and Telecommunication Systems Jamshaid Zafar, Information and Telecommunication Systems Elaine P. Zagami, Counseling Michael Andrew Zeberlein, Information and Telecommunication Systems Kristin Zimmer, Counseling William George Zitzmann, Counseling

#### Masters of Business Administration

## The School of Professional Studies in Business and Education

Maan S. Abduldayem Loay Kamal Abukwedar Lesley Karen Albanese Tseday Alemseged Charles Andrew Ammerman Elizabeth Erb Amolsch Glenn Carmel Hilliard Andrews Arjumand Ali Ansari William Charles Anthony Marta C. Arbelaez Mary Susan Arcuri Lynden Curtis Armstrong Binita Shah Asher Zembaba Ayalew Michael A. Aylward Marlen Ponte Ayodele Celeste Aida Azcue Russell Stephen Bahorsky David Michael Baron Lisa Ann Barr John Edward Bator Mary Rose Batuure Peter John Baughman Fred Behbahani Penny Denise Bemisderfer Jason Edward Bennett Stephan Frank Bennett Katrina Ranae Berry Yeshava Berzon Haresh Narain Bhatia Henri Blech Brian J. Bolger Lawrence Mark Boodin Tasha Renee Boone-Gilliam Bruce Jon Boos Naba Bora Denis A. Boulanger P. LaTisha Bourelly Meredith S. Bove Jesse Mitchell Boyer Vanessa Laureia Bradley James Peyton Brady Jr. Joel Bennett Braunstein Scott Allan Bredow Bruce Paul Breen Vanessa Tracy Brown Peter K. Bryant-Greenwood Holly Lee Buckingham Andre Thomas Budd Michael Gerard Burke

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Larissa Nichelle Eason Leila Ebrahimian Dean Edward Ergenbright Marilyn McDonald Essex Keith Todd Ewing Eduardo Jorge Fajardo Angela Pauken Fatula Richard Leal Feliciano James D. Fenton **Carlos Manuel Fernandez** Hodayah H. Finman Sherri Vonetta Fisher Rvan E. Fitz-Patrick Jennifer Lynn Fleet Daniel Bennett Flynn John N. Foran Kirill Fridkin Patricia Ann Gaffney John Basil Gajduko II Norman Roger Gardner Houman Ali Ghorbani Norissa Eline Giangola Nicole Marie Giannini Charlene Marie GooDev Steven William Goodman Craig Steven Goodwin Tami Michelle Gosheff Robin Yvette Green Rebecca Elizabeth Gregory Deepika Gunaratne Mark Alan Hadra Sonva Mitchell Hand Aamir Hanif Tyrene Mayana Haralson Kristin Michelle Harding Helen Althea Harewood Supriya Balakrishnan Harida David Tyson Harriman Miles Philip Haw Leroy Y. Hayford-Winful Garth F. Heagerty Ne'Rissa Katrina Heagerty Judith Hedje Georgeann McLean Higgins Christopher Gordon Hill Robert Wilson Hillman Wavell Constantine Hodge Mark Lee Holdread **Jenel M. Holmes** Mark Stephen Hopkins Garet L. Howard Pai-Yang Hu Elizabeth Gray Murray Hua Xiaofeng Hua Joseph Jason Huang

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Sean Coakley Long

Donald Richard Longway Maria LoPiccolo George David Low David Henry Lowinger Kristen Elizabeth Luby Lloyd Douglas Lyle Frank V. Maisano William Shannon MacCartee Robert Alan Maggin Jay A. Majer Kevin L. Major Marina Makanova Nauman Malik Sameer Malik Heather Lynn Maring Kenneth Andrew Markle Jewel Knight Marsh Rosalyn Yvonne Marshall Shawn Patrick Martin Neil Scott Maslansky Adnan Masud Michael J. Mathias Emory DeLane McGee Craig Dwayne McKenzie Michele Marie Mehrling Benjamin Christopher Meisner James I. Menapace Houman Mesghali Keith Mfume Matthew Neal Miller Michael Philip Miller Redonda Gail Miller Thomas Raymond Miller Ephrem Minasse Shelley Woodyard Minter Wa Mo Seved Hamid Mohammadi Sandra Katalina Montana Lamont Garnell Morgan John Sembe Morlu II Festo Mpuku Mpundu Christopher Alan Muldowney Lucy Cecilia Mullins Manoj Kumar Nanda Jason Andrew Neiditch Matthew C. Neigh James Harman Nelson Sammantha Elizabeth Neuer Wilson Nhlizivo Gabriella Vanessa Nicastro Neeti P. Nigam Lynne Hurley Norris Rhonda Lynne O'Bannon James B. O'Boyle Robert William Ogburn Brigitte Elise O'Halloran

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Sarpong Mohan Sasthay Mia Ann Scarantino Nancy Schulman Rania B. Selfani Mustapha Sesay William Allen Shaffer Anil K. Sharma Yogesh Sharma Tom T. Shimabukuro Moshe J. Shmuklarsky Susan Carol Shock Kendra Lyn Shurtleff Babita Kalotra Singh Parag Singh Vininder Singh Shivan Sivalingam Christine M. Sloan Kenneth Ramon Smith Robert Fendlay Smith Brandan William Sommerfield Catherine Y. Song Johanna Mara Spangenberg **Joshua Dov Spotts** K. G. Srinivas Peter S. Staats Christopher Allan Stark Carla Steiger Jeffrey S. Steinman Michael Franklyn Stone Elizabeth Talberth Stotz Iason E. Stremmel Keith E. Strohman Gary Richard Sullivan Bing Sun Douglas Matthew Sunshine Iames Peter Suriano Akvile Sweetman Christopher M. Taddei Franklin Russell Tanner Charnette Rosemarie Taylor Gerry Colin Taylor Michael James Taylor Carroll Ann Thomas Sharon Susan Thomas Ronald L. Ticker Goodwin Ting James MacGregor Tisdale Michael Joseph Toner Truett Aaron Tooke Robert Barret Tookey Stephane Fabrice Toscano John Martin Trader Raymond Austria Trajano Seth Shepard Troy Peter Pai-I Tung

Sandra Maureen Turgott Dana Arnold Twible John Dennis Urbach II Joann Urguhart Nwadimma Irene Uzoukwu Robert Daniel Velasco Vincent John Vilasi Alexi Vinogradsky Brian Andrew Wade Elvse Carole Wagner Tracy-Ann Waite Carleton Edward Walker Larry Joseph Wall Nathaniel Lee Walunas Jun Victoria Wang YuQing Wang Chidchom Wasontiwong Virginia Burket Weinknecht Matthew David Wentland Kimberly Ann Wergin Trent L. Wertz Amanda Anne Whittington Albert Russell Wilkerson III Gerald Joseph Wilson Bradley Wayne Wilt Steven Wesley Winn Joy Erin Wiszneauckas Dong Yang Baris Esat Yener **Richard Jonathan Zimet** 

#### Masters of Arts in Teaching

## The School of Professional Studies in Business and Education

Carlton James Ackerman Ann Hanlon Adams Pharr Elizabeth Adams Suzonn Ahmadian Michele Yvette Amerson Keena B. D. Antonelli Gregory Charles Atanossian Joseph A. Avara Damian Ayichi Natalia F. Bacchus Alicia Joy Bacon Kathy Lynn Bacon Mia Olivia Ball Gina L. Bannon Juliana Cella Barbalunga Magali Barbaran Ian Patrick Bartman Jason Nathaniel Beall **Emily Jean Benson** 

Sean Raviv Berg John Daniel Berry Jeremy Alan Best Jennifer Allison Bistrack Crystal A. Blue Barry Stephen Blumenstock Carolyn Lou Bowman Theresa Marie Boyd Ann Jeffers Brazaitis Christopher Thomas Brown Amy Lynn Buckner Julia Christine Buergler Fatima Nefertiti Burns Mary Kring Carbone Tiffiney Frances Carney Chervl Hyman Carpenter Munna C. Chakrabarti Connie Liao Chang Naindeep Singh Chann Eugenia L. Chiu Simren Singh Claire Erin Margaret Clark Susannah Thomson Clark Kimberly Yvette Clarke Nova Carmin Cobble Robyn Michelle Cohen Frances Ingrid Connolly Sean Dublin Connolly John Lawrence Conroy Sammy A. Conteh Alexis Bakrim Cotay 3rd. Matthew Abraham Coury Karen Grace Crawford Aileen Marie Cuddy Mikenzie L. Custer Marcus Javon Davis Meredith M. DeGemmis Kristen Elizabeth Denney Samantha Leah DePrisco Sweta Dharia Shiquetta Sherrill Dixon-Lee Marie Dexter Dolan Erin Kathleen Doland Katherine Ann Dutton Marc Daniel Dworin Cheveonne Hannah Edwards Sarah Renee Edwards John Eugene III **Ryan Vincent Farrell** Diana Fink Roberto J. Flores **Beth Jane Foster** Linda Casale Frascarella Lansing Carpenter Freeman Michael Isaac Garcia Brian Todd Garrity

Amy Miller Gartland Zain S. Gary Shilpa Sudhir Gokhale Ellyn Rose Goldberg Tamiko Gomez Susan A. Goodrich Ashley Graham-Bell Celeste Christina Greaves Erin Marie Green Ianet Heit Grobstein Job Shin Grotsky Joseph Albert Guarino Victoria Hamilton Shavna Renee Hammond Peggy Smoot Hannon Kristen Angela Harkness Crystal Lynn Harmon Wendy Pamela Harris Jason Scott Hartling Courtney Marie Hewitt William Howard Hill Jr. Jennifer Eleanora Hite Lisa Anne Hof David F. Horgan Clive Hsu Matthew James Hudock Monica Hudock Chauntia Carlita Hughes Timothy Scott Hughes Michael John Humphries Sharon Hope Irons Jessica J. Jackson Zachary Jaffe Jessica Marie Jay Yolanda Carole Jenkins Kristopher Todd Jensen Heather Suzanne Kalish Tina Marie Kaufman Katie Anne Keeley Timothy James Patrick Kelly Sarah J. Kenders Lisa Marie Kennedy Robert Alan Kennedy Alison Leslie Hoffheins Kersten Saghar Sereena Khalihan Elissa M. Knight Anna Christina Koelln Robert Michael Kuney Brooke Fay LaMartina Claire Smith Lambert Kathleen Magee Lanehart Michael John Laskowski Joel LaTorre Megan Katherine Lavin Jesse Joseph Lewis Sean Kevin Logie

Glenda LaJoyce Lutalo Nancy Magloire-Campbell Ami Shivji Magunia Leila Elizabeth Mahlin Joseph Nguyen Manko Morakot Lanenavong Masokas Sara Larissa McCallum Brandy Hunt McDaniel Matthew Michael McDermott Clara Pitre McDonald Kerry Lynn McGee Keri Marie McGreal Melisa Dawn McLaughlin John Campbell McLean Kristen Lea McNabb Donna Ann McNeill Rachel Susan McQueeney Jessica Ann Miller Kevin Howard Miller Jeffrey Todd Mintiens Helen Katherine Mitchell Ami Satish Mody Deborah J. Moffett Jennifer Louise Moore Tamyka S. Morant Justin M. Morgan Nancy Harper Morgan Linda Lee Morris Ronita Alioce Morsell Suzanne Frances Murray Natasha Elizabeth Myers Nazanine Nabaiee Peter Khoi Nguyen Roseline Enavi Njar Sylvie Kajuru Nkere Matthew Peter Noon YooRee Oh Marilyn E. Palmer Vedika Vinay Pande Marie-Laurie Parfait Kathy Jean Shuma Parks Vanessa Lee Paroby Kellee Alicia Parrott Denise Ann Paul Rebecca Lynn Paul Lori A. Phelps Edward J. Pietroski Jennifer Leigh Poisson Becky Ellen Porter Michael Edward Potter Sheree Denise Price Helen Lucille Purnell Manish Tushar Raiji Colleen Rafferty Reed Elna Mateo Reggie Grace Anne Rivera

David Howard Robbins Veena Lakhi Roberson Char 'Lynn Jendayi Robinson Lauren F. Rogers Dawn Yvonne Rose Arnetta Marie Rudisill Cristina Francesca Russo Barbara Elizabeth Ryan Toby Jan Salahuddin Robert William Salley Kiondra Renee Sampey Tara Maxine Sanguinette Victoria Margaret Sansone Evi Savvides-Gellerson Andrew William Schroeder Virginia Katherine Laire Schruefer Anat Schwartz Kate McGuire Wesley Sears Lisa Marie Shadduck Paul Anton Shapiro Tara L. Shugarts Genevieve Parker Siegel-Hawley Caryn Lynn Simmons Teneka Michon Smith James Sanfred Snyder John Stuart Speaker Valerie Bonita Stamper Elizabeth Celeste Standish Wenona Kay Stark Nicole Stewart Shannon Joy Stormont Rachel Naomi Suzuki Yvonne S. Thomas Jennifer Nicolle Thorson Sarah Catherine Todd Deborah Jane Tolley Christopher Anthony Turner Jacqueline Annette Tyson-Hope Jillian Ann Van Ells Iane Elise VanderMeer Kelly Jean Veitch Kristin Anne Vogel JaQuay Denise Waller Tina Loretta Walton Hill Yiping Helen Wang David Lloyd Warner Ashley Gayle Weissenburger Cynthia Marie Welch Joyce Ann Whaley Gina Michelle Wickstead Hilary Ruth Wiggin-Epp Lauren Sheril Wilkinson Ryan T. Willard Michael V. Williams

Eva Paulette Wortherly Katherine Ann Wotthlie Cheyanne Maree Zahrt Andrew Robert Zapke Nadia Nabeel Ziadi Natale Jean Zimmer

Post-Master's Certificates in Business

## The School of Professional Studies in Business and Education

Alberto M. Grosmark, Information and Telecommunication Systems Laurence Alec Himelfarb, Electronic Business David Michael Joyce, Electronic Business Luanne F. Vizzi, Information and Telecommunication Systems

## Post-Master's Certificates in Education

## The School of Professional Studies in Business and Education

Leslie Ann Benfer, Clinical Community Connseling Patricia Jane Bowdoin-Babbitt, Addictions Connselng Kiran Dixit, Clinical Community Connseling Royce L. Ferguson, Organizational Connseling Rebecca Mary Foster, Clinical Community Connseling Barbara Starr Gleason, Career Connseling Peter J. Goeden, Clinical Community Connseling Debby J. Huie, Clinical Community Counseling Dawn Marie Iannaco, Clinical Community Connseling Mary Elizabeth Serey Johnson, Connseling At-Risk Yonth Ekta Boveja Loomba, Clinical Community Connseling Kelly L. Moran, Clinical Community Connseling

Susanne Bernadette Olsen, Clinical Community Connseling Laura Joy Pennington, Clinical Community Counseling Joyce E. Reimhherr, Career Connseling Mary Rugel Santulli, Spiritual and Existential Connseling and Therapy Patricia Breschi Schlough, Spiritual and Existential Connseling and Therapy Catriona Lynn Schmidt, Clinical Community Connseling Eric Scott Swan, Spiritnal and Existential Connseling and Therapy Tricia Michelle Uppercue, Spiritnal and Existential Connseling and Therapy Anise MaSean Walker, Connseling At-Risk Youth

#### Certificates of Advanced Graduate Study

The School of Professional Studies in Business and Education

Sheri Anita Lewis, *Connseling* Hollis Charles Neal, *Counseling* 

### Masters of Science in Nursing

#### The School of Nursing

Tracy Anne Agee Cheryl Dianne Borries Michael Donald Bumbach Holly Claire Calvert Eva Kai-Fen Chen Nicole Louise Digenan Donna Marie Dorr Tracy Thranhardt Douglas Charia Louise Friend Elina Gofman Carl R. Hankel Agnes H. Ho Terri Jean Holloway-Petty Laura M. Hostovich Jennifer Kay-Berene Klein Shavon Trenice Legette Anna Elisa Madigan

Hayley Diana Mark Shannon Rae Micheel Linda A. Miller Allison Marie Murter Teri Ann Murtha Ann Kathryn Creech Muther Tricia Lynne Oldershaw Vinciya Pandian Hyun Jeong Park Barry Michael Perper Meghan Zee Podliska Annette Marie Rossi Roxanne Rebecca Rovce Lisa Shindle Karie Lynn Siljamaki Erica Faye Southworth Grace H. Sun Marie Elizabeth Swisher Rebekah Sims Trimble Maryke Louise Van Leeuwen Stephanie O'Donnell Wilmer Donna Helen Yanusz Nelli Zafman

## Masters of Science in Nursing/Masters of Business Administration

## The School of Nursing

Rebecca Ann Brotemarkle Kimberly R. Jordan Wei-Ting Lin Laurie Ann Martinez Modupé Chinyere Oleru Kimberly Reneé Schultz Martha Lynn Sylvia Tara Marie Tehan Lisa Cheatham Williams

### Masters of Science in Nursing/Masters of Public Health

## The School of Nursing

Rachel Blankstein Breman Anne Marie Caston-Gaa Deirdre Fiona Flowers Keri L. Hyde Stephanie Lynne Judy Melanie M. Michel Judith Morya Resick Elizabeth Ann Richardson Sara Janelle Russell Mina L. Shapiro Annamma Udaya Thomas Jennifer Marie Calip Weil Kristin Ann Weinhauer Christine Anne West

## Graduate Performance Diplomas

## The Peabody Conservatory of Music

Saar Ahuvia, Piano Jorge Alejandro Amaral Agresti, Gnitar Taylor Scott Armstrong, Voice John William Artz VIII, Voice Aurélie S. Banziger, Violin Aaron Brant, Horn Nabih B. Bulos, Violin Hsin-I Chen, Piano Yi-Ju Chen, Viola Ji-Eun Choi, Piano Victor de Almeida, Viola Magdalena Duhagon, Gnitar Christopher Dennis Dunn, Gnitar Rebecca Gordon, Voice Alisa Marie Grundmann, Voice Jennifer Lynn Jackson, Piano SooKyung Jeong, Viola Yoo-Jin Jeong, Voice Min Jae Kim, Violin Carolyn Chi-an Kuan, Conducting Eun Kyung Lee, Viola da Gamba Iou Won Lee, Piano Yating Lee, Harp John Henry Littlejohn, Violin Carmen Martínez, Violin Christine Tara Maria Kavanagh Miller, Opera Chryssie Nanou, Computer Music/Piano Performance Jin Kyung Park, Piano Jun-Young Park, Violin Soobin Park, Violin Bohuslav Rattay, Conducting Bradley Joel Ross, Voice Brian Theodore Sacawa, Saxopbone Andrea Loren Sematoske, Bassoon Susan Sevier, Voice Joohee Shin, Horm William Farrar Strum, Opera Evelyn Virginia Trester, Voice

Nakia Sherrie Verner, Voice Andrea Wiltzius, Voice Andrew Meade Winn, Gnitar Yi-Ping Yang, Viola Jacob Yoffee, Jazz Saxophone Igor Yuzefovich, Violin

#### Masters of Music

# The Peabody Conservatory of Music

Nozomi Abe, Percussion Saar Ahuvia, Piano Ezekiel Alan Bailey, Gnitar Christopher J. Bassett, Composition Ira Matthew Berman, Clarinet Charles Brian Biondo, Mnsic Education Alyssa Eve Bowlby, Voice Bernadette V. Brennan, Composition Suzanne Toby Bulua, Gnitar Erika Lauren Burns, Viola Brian Christopher Carl, Piano Kristin Nicole Chadderton, Piano/Pedagogy Ho-Yao Chang, Voice Pei-Chun Chen, Horn Ya-Yun Chen, Clarinet Youngjoo Chin, Voice Minsun Choi, Violin Jin Ho Chung, Composition Shannon N. Conley, Piano Zachary Lynn Crockett, Composition Christopher Dennis Dunn, Gnitar Scott Power Elliott, Trombone Mark Kris Emon, Computer Music Research Darlene Enke, Voice Aisha Nicole Farbes-Lyons, Voice Damon Ferrante, Composition Joel Gabriel Frisch, Percussion Hsin-I Alice Fu, Piano Mark D. Gardner, Voice Tyler Hale Goodwin, Double Bass Catherine Marie Green, Voice Robert K. Hamilton, Computer Music Composition Jessica Hanel, Voice Elizabeth Ann Healy, Voice

Julie Christine Hiscox, Voice Jennifer J. Hobbs, Voice Trent A. Hollinger, Composition and Wind Conducting Chih-Jung Hsu, Violin Jonathan Manley Hudson, Voice Angela Sue Old Jones, Music Education Yoojin Jung, Harp Ja Yeon Kang, Piano JeongEun Park Kang, Piano Jae Hyun Kim, Clarinet Taehi Kim, Computer Music Composition Sarah Elizabeth Kuzmak, Music Theory Pedagogy Jill H. Lawson, Piano: Ensemble Arts Lindsay Ann Leach, Piccolo/Flute HeuiSeung Lee, Piano Ok Kyu Lee, Piano Sun Young Lee, Harpsicbord Naomi Lesley, Violin Carey Micah Lewis, Violin James T. Lindsay, Composition Pei-Rong Lo, Piano Jason Robert Lovelace, Composition and Computer Music Composition Chia-Yin Carol Ma, Violin Robert Cameron MacDonald, Gnitar Elizabeth Sarah Mahler, Violin John Michael Malloy, Trampet Cvnthia Ann Marcus, Violin Robert Maril, Voice Sarah Diane Martin, Voice Ilya Mayzus, Computer Music Composition Thomas J. McNichols, Voice Erik Graham Meyer, Organ Laura Martin Noah, Percussion Moon-Joo Park, Flnte Jeremy Edwin Peterson, Trimpet Adam Pettit, Gnitar Michael James Pierre Jr., Guitar Ben Andrew Quine, Piano Cameron Marc Raecke, Viola Anna Rakoczy, Flnte Erin Riley, Voice Douglas Geoffrey Rogers, Guitar/Pedagogy Jeffry Rogers, Gnitar

M. Hilary Ryon, Voice James Henry Seay III, Voice Daniel Greene Seigel, Voice Jasmin Min-Yu Shih, Violoncello Joohee Shin, Horm Asha Srinivasan, Computer Music Composition Sujung Sun, Piano Cathleen Jean Torres, Horn Gina Marie Vanacoro, Voice Yi-Lan Wang, Trombone Anna Katherine Wessler, Flute Andrew Meade Winn, Composition Hee Kyung Yoon, Piano Piotr Adam Zielinski, Gnitar

#### Masters of Arts

# The Peabody Conservatory of Music

Colin Barnhill, Aconstics and Andio Alexander A. Kalejs, Aconstics and Andio Geoffrey Scott Sparks, Aconstics and Audio Richard Alexander Staherski, Aconstics and Andio

#### Masters of Science

#### Bloomberg School of Public Health

Amanda Lapides Blackford, **Biostatistics** Delphine Marie Blain, Health Policy and Management David John Bradley, Clinical Investigation Thomas Peter Cappola, Clinical Investigation Gloria Hoe-Jung Cha, Molecular Microbiology and Immunology Jing-Yi Chern, Biochemistry and Molecular Biology Audrey Virginia Grant, Epidemiology Shawn Ellen Sinesky, Health Policy and Management Karen Kin Yan Tam, Health Policy and Management

Valerie Brook Waggoner, Health Policy and Management Jian Wang, Biostatistics Hannah Phil Yang, Epidemiology Mei-Fen Yeh, Biostatistics

#### Masters of Health Science

#### Bloomberg School of Public Health

Martha E.S. Alexander, International Health Muneera Y. Alghaferi, Molecular Microbiology and Immunology Agbessi Amouzou, Biostatistics Brett Alyson Ange, Epidemiology Hrisanti Chrisa Arcan, International Health Anitha Arockiasamy, Health Policy and Management Marcus Lashaun Artis. Mental Health Keiko Asao, Biostatistics Christopher B. Atzinger, International Health Alexander Balbir. Environmental Health Sciences Nicola Barsdorf, International Health Christopher Lloyd Baumbach, Molecular Microbiology and Immnnology Angela Marie Bayer, Population and Family Health Sciences Robert Brian Becker, Molecular Microbiology and Immnnology Ann Victoria Bell, Epidemiology Lidia Sara Bernik, Mental Health Lauren Beth Bloom, Health Policy and Management Dorothée M. Bond, International Health Elizabeth Ann Bradley, Clinical Investigation Susan Flaine Brenneman, Environmental Health Sciences Whitney Marie Brimfield, Population and Family Health Sciences Noelle Briones, Biochemistry

and Molecular Biology

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Arvind Krishnappa Hoskoppal, Health Policy and Management Ningqi Hou, International Health Alice Hsu. International Health Hung-Meng Huang, Health Policy and Management Chien-Te Hung, Health Policy and Management Camille Nina Immanuel, Biochemistry and Molecular Biology Upinder Kaur Jodhka, Epidemiology Laura Marie Johnson, International Health Mark Thomas Kelly. Health Policy and Management Kirat Yogendra Kharode, Health Policy and Management Alan Hongjin Kim, Biochemistry and Molecular Biology He Rim Benedicta Kim, International Health Yeowon Angela Kim, Mental Health Chrispus Kiyonga, Population Dynamics Jiing-Tang Ko, Health Policy and Management Julianna Marie Kohler, International Health Joseph Gregory Krecz, Biochemistry and Molecular Biology David Kuo, Health Policy and Management Hsiang-I Kuo, Health Policy and Management Gabriel Yungping Lai, Epidemiology Vaughan Paul Landon, Environmental Health Sciences Heidi Lary, International Health Alisher Bahromovich Latypov, Mental Health Yong Li, Biostatistics Chen-Li Lin, Health Policy and Management Gong-Meei Lin, Health Policy and Management Hou-Chun Lin, Health Policy and Management

Ming Hsien Lin, Health Policy and Management Shin Lin, Biostatistics Shiow-Wen Liou. Health Policy and Management Chih-Kuang Liu, Health Policy and Management Caroline Afia A. Lomo. Environmental Health Sciences Noreen Malik, Population and Family Health Sciences Morgan Alexander Marks, Epidemiology Janean Elvse Martin, International Health Elizabeth Anne Martinez. **Clinical Investigation** Joseph Matovu, International Health Elizabeth Cotton Matsui, Epidemiology Sheila Anne McCarthy, Environmental Health Sciences Eddy Jose Morales, Biochemistry and Molecular Biology Katrina Lynn Morgan, Health Policy and Management Eric Wassef Nawar, Epidemiology Rahim Shiraz Nazerali, International Health Mya Sapai Ngon, Population and Family Health Sciences Robert Sayoc Nocon, Health Policy and Management Kara Ellen Nygaard, International Health Elizabeth Ann O'Leary, International Health Proma Paul, International Health Wendy D. Pavlovich, International Health Raquel Maria Peralta, Biochemistry and Molecular Biology Maria Jose Perez-Patron, Population and Family Health Sciences Stacie A. Perkins, Biochemistry and Molecular Biology Hasnain Yusufi Photowalla, Health Policy and Management

Christopher Baxter Pierce, Epidemiology Catherine Adrienne Porter, Epidemiology Katrin Post-Martens, Molecular Microbiology and Immunology Katiuscia Sophia Potier, Health Policy and Management Shubha Vanessa Yvonne Raju, Health Policy and Management Bahie Mary Rassekh, International Health Stephanie Ann Richard, International Health Julie Diana Richman, Environmental Health Sciences Marina Raven Rifkin, International Health Eva Yvonne Roca, International Health Sarah Helen Rogers, Population and Family Health Sciences Patricia Elena Roldan, Environmental Health Sciences Ernest Joseph Rovella, Health Policy and Management Christina Marie Schumacher, Epidemiology Richard Semakula, Population and Family Health Sciences Stefani Ann Sesler. International Health Sanket Sharadchandra Shah, Molecular Microbiology and Immunology Jeannie-Marie Sheppard, **Biostatistics** Pao-Ying Sheu, Health Policy and Management Jin Bo Shim, Health Policy and Management Nagendra Nath Sinha, Population and Family Health Sciences Christopher John Sonnenday, **Clinical Investigation** Renato Spindel, Epidemiology Rachel Lee Steinfeld, International Health Lien-Wen Su, Health Policy and Management James Anthony Suit, Biochemistry and Molecular Biology Sandhya Sundaram, International Health

Yoko Suzuki. International Health Kanako Tanigaki, International Health Godslove Eva Tetteyfio, Health Policy and Management Nandita Thatte, International Health Alicia Lashanda Thomas, Population and Family Health Sciences Valerie Jean Thompson, International Health Annelise Thornton. International Health Nhan Thanh Tran, International Health Kuo-Chen Tseng, Health Policy and Management Richard Marvin Ugarte, Epidemiology Naomi Rachel Freeman Van Dinter, International Health Damilola Walker, International Health Tamitha Tarice Walker, Health Policy and Management Chung-Kwe Wang, Health Policy and Management Haijiang Wang, Biostatistics Tzong-An Wang, Health Policy and Management Colin Patrick Ward, Health Policy and Management Stanley Plaxco Watkins III, Epidemiology Laurena Leigh-Charlotte White, Biochemistry and Molecular Biology Emma Kathleen Williams, International Health Merrick Brook Wright, Population and Family Health Sciences Yu-Pin Yan, Health Policy and Management Rena Rosa Yi, Biochemistry and Molecular Biology Ii-Yeon Yu. International Health

## Masters of Public Health

## Bloomberg School of Public Health

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### Certificates of Continuing Engineering Studies

The G.W.C. Whiting School of Engineering

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## Post-Master's Advanced Certificates

## The G.W.C. Whiting School of Engineering

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#### Masters of Science in Engineering

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JaTara Chanel Brown, Computer Science Michael Emmette Buckman, Electrical and Computer Engineering Prashanth Prasanna Bungale, Computer Science Ryan Wallace Caudy, Computer Science Abdullah Celik, Electrical and Computer Engineering Florence Sau Wai Chan, **Biomedical Engineering** Rulian Cheng, Applied Mathematics and Statistics Abhishek Beharilal Chitlangia, **Computer** Science Edward Tze Chow Choi, Electrical and Computer Engineering Andréa Marie Colabella, Mathematical Sciences Daniel Henry Coleman, Electrical and Computer Engineering John W. Daniel, Computer Science Sourin Das, Electrical and Computer Engineering Darren Craig Davis, Computer Science Bodhisattva Debnath, **Computer** Science Julien Deleuze, Biomedical Engineering Brandon Rhys DeVries, Computer Science Domari Dyana Dickinson, Computer Science Andrew Tuan Do, **Computer** Science Janet Carol Effler, Electrical and Computer Engineering Lotta Maria Ellingsen, Electrical and Computer Engineering Abdel-Monem Mohamed El-Sharkawy, Electrical and Computer Engineering Iman A. El-Shehaby, Electrical and Computer Engineering Xiaodong Fan, Electrical and Computer Engineering Mohammed Idris Farooqi, **Computer** Science Nadia Farooqi, Computer Science Gregory Scott Fischer, Electrical and Computer Engineering Erin Colleen Fitzgerald, Electrical and Computer Engineering Daniel Santiago Gianola, Mechanical Engineering Paul Robert Giedraitis, Electrical and Computer Engineering Kendall Everett Giles, **Computer** Science Eric Alan Goldlust, **Computer** Science Andrea Emilia Gonzalez Calderon, Geography and Environmental Engineering Gnanaranjan Gunaratnam, Civil Engineering Vivek B. Haridas, **Computer** Science Eric James Harp, Geography and Environmental Engineering Whitney Allen Hastings, Mechanical Engineering Kathryn Anne Hayes, **Computer** Science John Christopher Helwig, Geography and Environmental Engineering Michael Cate Hilsdale, **Computer** Science Badri K. J. Hiriyur, Civil Engineering Roy Donald Hodgman, **Computer** Science Erin Jane Hoyt, Geography and Environmental Engineering El-Saved Hassan Mohamed Ibrahim, Electrical and Computer Engineering Sarah Keenan Jacobi, Geography and Environmental Engineering Andy Jhuheon Jun, Chemical Engineering Jesse Stephen Jur, Chemical Engineering Daniel Raymond Kalowsky, **Computer** Science Viral Girish Kapadia, **Computer** Science Peter Charles Keeler, **Computer** Science

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## Certificate in Biotechnology Enterprise

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Anchalee Jiemjit Ronald S. Kasner James Edward Pedicano

#### Masters of Arts

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Nikki Georgina Traylor-Knowles, Molecular and Cellular Biology Irving E. Wang, Molecular and Cellular Biology Seung-hyun Woo, Molecular and Cellular Biology Ting Sum Lydia Yee, Neuroscience Chong Kun Yi, Molecular and Cellular Biology Susy Ann Yusung, Molecular and Cellular Biology

## Masters of Science in Biotechnology

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#### Doctors of Education

## The School of Professional Studies in Business and Education

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#### Artist Diplomas

# The Peabody Conservatory of Music

Ryan de Ryke, Voice William Jason Hardy, Voice Christie Julien, Piano Seoyoung Lee, Organ Eun-Jung Shon, Piano

#### Doctors of Musical Arts

## The Peabody Conservatory of Mnsic

Hye-Jung Hong, Piano Michelle Kiec, Clarinet Robert William Muckenfuss, Piano: Ensemble Arts Keiko Sekino, Piano Samuel Dennis Springer, Organ Christian Tremblay, Violin

## Doctors of Nursing Science

## The School of Nursing

Elizabeth Taylor Jordan. Predictors of Neonatal Outcomes. Lisa C. Rowen. Factors

Related to HIV Testing.

Janet Lee Small Selway. The Impact of Alcohol on Trauma Outcomes in the Older Adult.

David A. Thompson. Clinical and Economic Outcomes of Intra-abdominal Surgery Patients Who Develop Hospital Acquired Pneumonia.

#### Doctors of Philosophy

#### The School of Nursing

Wendy Patricia Blakely. The Biobehavioral Consequences of Spinal Nerve Ligation: A Model of Chronic Neuropathic Pain.

Kathryn Susanne Laughon. African American Women's Experiences of Lifetime Violence, Mental Illness, Substance Use and Risk of Sexually Transmitted Infections.

Anne Bernadette Woods. Bio-Psycho-Immunologic Responses to Intimate Partner Violence.

#### Doctors of Science

## Bloomberg School of Public Health

Elizabeth Gerken Hooten, *Health Policy and Management*. Fatal Occupational Injury: Evaluating Surveillance in North Carolina Using Capture-Recapture Methods. Charles Brace Reuland, *Health Policy and Management*.

Evaluation of a Handheld Antibiotics Decision Support Tool in an Internal Medicine Residency Training Program

#### Doctors of Public Health

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- Jung Fang Chi, *Population Dynamics*. High Risk Behaviors and Mortality of Elderly Population in Taiwan.
- Yoonjoung Choi, *Population* and Family Health Sciences. Childhood Mortality in Sub-Saharan Africa: An Examination of the HIV Epidemic Impact.
- Maria Karla Lin Eng, International Health. Antiretroviral Therapy: Adherence, Utilization, and Resistance Among HIV-Infected Injection Drug Users in Baltimore, Maryland.
- Sylvia Elaine Joice, Health Policy and Management. Patient Race, Ethnicity and the Receipt of Mental Health Counseling and Psychotherapy in the Management of Mental Disorders in Physician Offices.

Unni Krishnan Karunakara, Population Dynamics. The Demography of Forced Migration: Displacement and Fertility in the West Nile Region of Northern Uganda and Southern Sudan. Robert Louis Kay Ir., Environmental Health Sciences. Determinants of Death and Injury in House Fires. Samuel Lantei Mills, Population and Family Health Sciences. Utilization of Obstetric Services in Northern Ghana: A Quantitative and Qualitative Assessment of Skilled Health Professionals at Delivery. Bryanna Marie Osborne-Vega, Health Policy and Management. The Impact of Critical Pathways on Complications of Care and Legal Liability Claims in Obstetrics and Gynecology. Md. Hafizur Rahman, Population and Family Health Sciences. Patterns and Predictors of Antenatal Care Seeking and Care Seeking During Delivery among Women in Rural Bangladesh. Jennifer Denise Roberts, Environmental Health Sciences. A Risk Analysis of Exposure to Cryptosporidium Through Fishing and Fish **Consumption Among** Vulnerable Populations Within Urban Baltimore Watersheds in the Chesapeake Bay Region. Michael Allan Yonas, Population and Family Health Sciences. Exploring the Contextual and Individual Dynamics of Urban Youth Violence in Baltimore City:

A Needs Assesment.

## Doctors of Philosophy

### Bloomberg School of Public Health

Naomi R. Adelman, Health Policy and Management. The Hospice Primary Caregiver Questionnaire. William Keith Alexander, Environmental Health Sciences. Influence of Abrasive Grit Size/Lead Concentration on Dust Particle Size When Sanding Lead Based Paint. Karvn Anderson, Mental Health. Child and Adolescent Predictors of Youth Alcohol Use to Intoxication. Yutaka Aoki, Environmental Health Sciences. Exposure to Cholinesterase-Inhibiting Agents as a Risk Factor for Development of Non-Hodgkin's Lymphoma. Gihan Barsoum, Health Policy and Management. Legal Mobilization for Mental Health: A Case Study in Public Health Advocacy. Julie Anna Bettinger, Epidemiology. The Influence of STD Risk Perceptions and Family Factors on Sexually Transmitted Diseases in Female Adolescents. Elizabeth E. Brown, Epidemiology. Human Herpesvirus 8 and Classic Kaposi Sarcoma in the Italian Case-Control Study: Phenotypic and Genotypic Markers of Immunity. Susannah Diane Brydges, Molecular Microbiology and Immunology. Molecular Characterization of Toxoplasma Gondii MIC5 Protein/Dissection of the N-Terminal Extension of TgSODB2.

Ya-Fen Chan, Mental Health. Iuvenile Violent Behavior: The Suspected Influences of Childhood Aggression and Early Onset Drug Use. David Chang, Health Policy and Management. Age-related Variations in Trauma Care and Implications for Health Care Systems: Do We Discriminate Against the Elderly? Weimin Chen, Biostatistics. Robust Quantitative Trait Linkage Analysis in Extended Human Pedigrees. Yu-Chan Chiu, Health Policy and Management. The News Media Construction of Doctor-Patient Relationships. Marla Lynn Clayman, Health Policy and Management. Companion Behavior and Patient Autonomy in Primary Care Decision-Making Among Geriatric Patients. Lisa Hilari Clemans-Cope, Health Policy and Management. Children's Mental Health Service Use in the Community: Static and Dynamic Panel Data Models of the Treatment Effect. Susan Haines Cook, Molecular Microbiology and Immunology. Development of an in vivo Imaging System to Elucidate Mechanisms of Attenuation of Sindbis Virus.

Aaron David Curry, Health Policy and Management. Pathways to Depression: The Impact of Neighborhood Violent Crime on Inner-City Residents in Baltimore, Maryland. Christina Ann Cutshaw, Mental Health. Perceived Success of Family Mental Usekh Adventor

Conan Quinn Dickson, Health Policy and Management. The Relationship Between Hospital Characteristics and the Migration of Surgical Cases from an Inpatient to a Hospital-Based Outpatient Service in Maryland. Shannon Corinne Doocy, International Health. Recurrent Drought in Ethiopia: Microfinance Programs as a Means of Improving Coping Capacity. Catherine Mary Dormitzer, Mental Health. Family Attention and Youthful Drug Use: Protection Against Involvement? Wesley Denton Eddings, Biostatistics. Topics in the Philosophy of Statistics: Methods, Data, and Theory. Linda Diane Elam, Health Policy and Management. Insurance Status, Race, Ethnicity and Access to Antidepressant Medications. Lori Sturtz Field. Environmental Health Sciences. The Impact of Copper, Zinc Superoxide Dismutase and the Mitochondria on Oxidative Stress and Life Span in Saccharomyces cerevisiae. Kate E. Fothergill, Health Policy and Management. Childhood and Adolescent Antecedents of Adult Drug Abuse and Dependence: A Longitudinal Study. Stephanie Hope Gilbert, Mental Health. Suicidal Ideation and Risk Factors Among Individuals at Risk for HIV within the Drug Using Community. Kerry Michele Green, Health Policy and Management. The Effects of Adolescent Drug Use on Adult Role Functioning: A Longitudinal Study Examining Gender

Differences.

Lisa Hsiao-Bin Green, *Healtb Policy and Management*. Socioeconomic Experience, Race/Ethnicity and Adult Health. Joanna Levendos Greig,

- *Epidemiology.* Effect of Occupational Electric and Magnetic Field Exposure on 6-Hydroxymelatonin Sulfate Excretion.
- Atul Grover, Health Policy and Management. The Relationship Between Teaching Hospital Missions and Medicare's Graduate Medical Education and Disproportionate Share Payments.
- Nikhil Anil Gupte, *Biostatistics*. Statistical Models and Methods for Mother to Infant HIV Transmission Studies.
- Christy Lee Hanson, International Health. Utilization of Tuberculosis Control Services in Kenya: Analysis of Wealth Inequalities.
- Jennifer Rochussen Havens, *Epidemiology*. The Effect of Antisocial Personality Disorder on Drug Treatment Entry and Subsequent Needle Exchange Utilization Among Injection Drug Users from the Baltimore
- Needle Exchange Program. Kathleen M. Hayden, *Mental Healtb*. Differential Mortality by *APOE* E4 Genotype: Due to Cardiovascular Disease, Alzheimer's Disease, or Both? The
- Cache County Study. Mohammad A. Hedayati, *Environmental Healtb Sciences*. Enzymology of Transformational Recombination in *Streptococcus pneumoniae*.

Shannon Louise Henshaw, Environmental Health Sciences. Spatial Attributes of Blood Organochlorine Concentrations in Washington County, Maryland, 1974-1989. Susan M. Higman, Maternal and Child Health. The Influence of Individual and Family Characteristics on the Relationship Between a Child's Language Development and Adult Social Interaction and Life Satisfaction. Narin Hiransuthikul, Epidemiology. INH Preventive Therapy Among Thai Adults HIV-Infected Patients. Angela Sykes Howard, Environmental Health Sciences. Use of in vitro Models to Elucidate Mechanisms of Developmental Neurotoxicity. Nicole Huang, Health Policy and Management. Antibiotic Prescribing in Ambulatory Care in Taiwan. Xin Huang, International Health. Dietary Fat Intake and Uncoupling Protein Expression in Lean and Obese Mice. Hirono Ishikawa, Health Policy and Management. Physician-**Elderly Patient-Companion** Communication in Japanese Geriatric Encounters: Roles and Influence of the Companion. Leila West Jackson, Epidemiology. A Case-Control Study of Parental Occupational Lead Exposure and Total Anomalous Pulmonary Venous Return. Rachel L. Johnson, Health Policy and Management. Race, Physician-Patient Concordance, and Social Distance: Effects on Communication and Participation in Medical Visits.

Sophia Victorovna Kazakova, Health Policy and Management. Primary Care Characteristics, Individual Health Status, Racial and Ethnic Disparities, and Income Inequality. Allegra Namyeon Kim, Health Policy and Management. Evaluation of the 1996 Maryland Gun Violence Act. Ya-Pei Liu, Epidemiology. Predictors of Physical Decline and the Use of Compensatory Strategies in an Older Population. Yongmei Liu, Epidemiology. Cardiovascular Disease Among Dialysis Patients: The Role of Inflammation Genes and Markers. Jennifer Hofelt Lofland, Health Policy and Management. Access to Health Care and Workplace Absenteeism for Individuals with Migraine Headache. Nilsa Ivette Lovo-Berríos, Epidemiology. Childhood Asthma Attacks and Ambient Air Pollution in the Cataño Municipality of Puerto Rico. Claire Neff Lucas, International Health. The Equity and Cost-Effectiveness of HIV Voluntary Counseling and Testing in Tanzania. Gregory Michael Lucas, Clinical Investigation. **Optimizing Treatment** Outcomes in HIV-Infected Drug Users: An Epidemiological Assessment and Interventional Model. Edward E. Luk, Biochemistry and Molecular Biology. The Molecular Pathways of Manganese Trafficking in Saccharomyces cerevisiae. Frederick Edward Makumbi, Population and Family Health Sciences. The Impact of Parental HIV Infection on Orphauhood, Fostering and Child Survival in Rakar District, Uganda.

Jennifer Sophie Roberts Mammen, *Environmental Health Sciences*. Studies of the Effects of Single Amino Acid Polymorphisms and Mutations on the Kinetic Properties of Cytochrome P450 1B1.

James Joseph McDevitt IV, *Environmental Health Sciences.* Development of Collection and Quantitative PCR Methods for Assessing Airborne Exposures to *Aspergillns fumigatns.* 

Christian Menard, Mental Health. Clustering of Child Abuse, Parental Psychopathology, and Other Family-Level Stressors and Children's Psychosocial Outcomes.

Sharon Celine Stein Merkin, *Epidemiology*. Area and Individual Socioeconomic Status, Race and Progressive Chronic Kidney Disease.

Eugene Vincent Millar, International Health. Nasopharyngeal Carriage of Streptococcus pnenmoniae among Navajo and Apache Children in the 7-Valent Pneumococcal Conjugate Vaccine (PnCRM7) Efficacy Trial: Natural History, Serologic Correlates and Duration of Protection Against Vaccine-Type Pneumococcal Carriage.

Fernando Montenegro Torres, Health Policy and Management. Human Capital Investment: Nutrition and Household Decisions on Schooling— Empirical Evidence from a Developing Country.

Liliana Moreno-Vinasco, *Environmental Health Sciences.* Mechanisms Underlying the Ability of Glucocorticoids and Retinoic Acid to Reverse Virus-Induced Airway Hyperreactivity.

Marlene R. Niefeld, Health Policy and Management. Access to Care Among Elderly Medicare and Medicaid (Dual) Enrollees. Christina Catherine Pallitto. Population and Family Health Sciences. Intimate Partner Violence and Unintended Pregnancy in Colombia. Susan Sylvia Patania, Health Policy and Management. Use of Antiretrovirals and PCP Prophylaxis in HIV Positive Urban Women with Depressive Symptoms: The HER Study. Sallie Robey Permar, Molecular Microbiology and Immunology. Mechanisms of Measles Virus Clearance and Immunologic Consequences of Infection. Sabrina Santoni Plitt, Epidemiology. Sexually Transmitted Infections and Sexual Behaviours of Young Drug Users in Baltimore, Marvland. Laura McCallister Prichett, Population and Family Health Sciences. Childhood Effects of Low Birth Weight. Shangqian Qi, Epidemiology. Use of Digital Analysis to Detect Fraud in Clinical Trials. Preetha Rajaraman, Epidemiology. Occupational Exposure to Lead, Genetic Susceptibility and Risk of Adult Brain Tumors. Ravi Madhira Ram, International Health. Determinants of Linear Growth Over the Preschoolto-School-Aged Years in Rural Nepal. Julie Ellen Rider, Environmental Health Sciences. Role of Polyamines in the Protection of Cells from Reactive Oxygen Species.

W. Courtland Robinson, *Population Dynamics.*"Famine in Slow Motion": A Retrospective Study of North Korean Mortality, 1995–1998.

Richard Scott Rogers, Biochemistry and Molecular Biology. Functional Significance of SUMO Modified Transcription Factors.

Martin J. Romeo, *Biochemistry* and Molecular Biology. Yeast Ras Signaling on the Endoplasmic Reticulum.

Marie-Hélène Roy-Gagnon, *Epidemiology*. Theoretical and Applied Investigations of a Regression of Offspring on Mid-Parent Approach: Familial Idiopathic Scoliosis.

Lewis Rubinson, *Clinical Investigation*. Optimizing Clinician Practices to Prevent Central Venous Catheter-Related Bloodstream Infections in Intensive Care Units.

Lisa Marie Sacco, *International Health*. Maternal Perception of Infant Crying: Effects on Infant Feeding Choices in Mexico.

Lionel Schachna, *Clinical Investigation*. Novel Predictors of Clinical Expression in Scleroderma.

Pamela Elizabeth Scott, *Epidemiology*. Medical Device Approvals: An Assessment of the Level of Evidence.

Weeraporn Seungthaworn, *Environmental Healtb Sciences.* Living and Working Experiences Among Thai Immigrant Women.
Mona Sharan, *Population and Family Healtb Sciences.* Determinants of Safe Motherhood and Newborn Care Behaviors in Rural India. Corinne L. Shefner-Rogers, *Population and Family Health Sciences.* Pregnancy Knowledge, Attitudes, and Practices in Indonesia: Does Husband's Social Support Make a Difference?

Joshua Jacob Shinoff, International Health. Humoral Immune Responses of Infants and Young Children to Vaccination or Natural Infection with RSV.

Julia Slutsman, *Health Policy* and Management. Assessing Physicians' Attitudes Toward the Federal Health Information Privacy Rule (HIPAA Privacy Rule) and Associated Organizational Compliance Efforts.

Sorachai Srisuma, *Environmental Health Sciences.* Genomic Regulation of Angiogenesis in Mouse Lung.

Aleksandr Byron Stefaniak, *Environmental Health Sciences.* Influence of Physicochemical Properties on Dissolution of Beryllium from Respirable Beryllium Particle and Powders Associated with Chronic Beryllium Disease.

Deirdre Ellen Kathleen Tarr, Molecular Microbiology and Immunology. As-MDPs: New Members of the Ascaris suum MSP-Domain Protein Family.

Karin Elizabeth Tobin, *Health Policy and Management*. Individual and Social-Contextual Correlates to Calling 911 During Witnessed Drug Overdose. Colleen Tang Tsui,

Biochemistry and Molecular Biology. Regulation of Polyubiquitin Chain Signaling in DNA Repair. Maria Todorova Vassileva, Biochemistry and Molecular Biology. SUMO Modification of Nuclear Proteins and Its Role in Messenger RNA Biogenesis and Chromosome Segregation.

Leigh Ann White, *Healtb Policy and Management*. Effects of Psychological Distress on Employment Among Low-Income Women.

April Zambelli-Weiner, *Epidemiology*. Gene-Environment Interaction in Asthma: CD14 and Endotoxin.

Feng Zhao, *Population Dynamics*. Maternal Education, Community Factors and Fertility in Relation to Child Health in Developing Countries.

## Doctors of Philosophy

# The Paul H. Nitze School of Advanced International Studies

Christopher S. Chivvis. Order and Freedom in the International Political Economy: The Development of the Political Economic Thought of Jacques Rueff, 1922–1972.

Jing Jin. Fiscal Federalism or Tax Farming: Political Economy of Fiscal Decentralization in China. Marianna Kozintseva. Competitive Enterprise: Using Power Cycle Theory to Estimate Firm's Relative

Capabilities and Market Response. Yusin Lee. Formation of a

Coherent Concept of Russia's National Interest in the Caspian Sea: A Constructivist Explanation. Diana Thorburn. The Political Economy of Foreign Banks in Latin America: Mexico and Argentina, 1990–2001. Irene Susie Wu. Liberalizing Telecommunications Services in China: The Limits of Economic Reform without Political Reform.

## Doctors of Medicine

## The School of Medicine

Aimalohi Agnes Ahonkhai Robert Keith Altman Jada Jean Anderson David Eduardo Barañano Kristin Whitford Barañano Mazen Ibrahim Bedri Loren Berman Cristine Elizabeth Berry Lauren Anne Beste Donna Bilu Peter James Bloomfield Marissa Ann Blum Christy Linnette Boling John Phillippe Broadnax James Andrew Browne Melissa Suzanne Camp Alexandra Cappiello Aaron Andrew Chambers Shu-Hong Chang Walter Wayne Cheng Victor Allen Chin Benjamin Franklin Chong Jessica Blair Ciralsky Carmen Marie Coombs Brian Eoin Costello Deborah Lynn Cummins Jacqueline Anisa Cunkelman Paul Eric Dahlberg Luke Wahl Deitz Michael Joseph Dorsi Matthew Lee Drake Sarah Lee Dugan Cheryl Patricia Ekkebus Rachel Joan Fogel Brian Thomas Garibaldi Meg Rebecca Gerstenblith Amy KaLee Henderson Jenny Jimmy Hong **Borislay Hristov** Wesley Hsn William Porterfield Innis H Rachel Lyn Johnson

Jacob Michael Jones Nathan Patrick Jones Jeremy David Kassebaum Alexander Arash Khalessi Mary Christine King Jeffrey Hall Kozlow Rvan Michael Kretzer Ivv Ann Ku George Peter Kuo Heather Renae Larkin Inna Levbell Joseph Lengeeh Lin Iris Gutmark Little Kevin James Little Ravmond Wei Liu Kristie Louie Lin Meghan Anne Lynch Cathleen Favrot Magill David Taylor Majure Jennifer Sophie Roberts Mammen Benjamin Alden Mandel Marc Ward McAllister Carolyn Anne McClain Joshua Todd Mendell Jonathan Marcus Miller Maryam Mokhtarzadeh Eva Michele Moore Andrew Evan Muck Rupa Mukherjee Venkatesh Locharla Murthy Lisa Ann Nash Hari Nathan John Dodd Neely David Anthony Nieglos David Abraham Nussbaum Virginia White O'Keefe Stephen Leighton Osgood Michael Paltiel Jaclyn Tennille Parker Marcus William Parker Daniele Djenaba Peters Thomas Michael Pilkington Sarah Polk Jennifer Cohen Price Matthew Joseph Provenzano Douglas Edward Ramsey Jamie Michelle Rand Pravin Kumar Rao Bradley Clay Register Jocelyn Mary Delia Rieder Kevin Stuart Ross Meghan Kathleen Rothenberger Bradley Philip Ryan Saurabh Saha

Michael Kenneth Shindle Brenda Aika Shoo David Richard Shook Mona Haider Siddiqui Bantayehu Sileshi Rachel Peck Simmons Akhilesh Keshav Sista Stanislav Spivak Brad Steven Sutton Stephanie Alicia Terezakis Rebecca Lyn Toonkel Hung Chi Tran Mark Minh Tran Melissa Marie Wahba Tracy Jennifer Wanner Elliot Theodore Weiss Ryan P. Westergaard Ann Rondeau Westra Jane Jinvin Yu

## Doctors of Philosophy

## The School of Medicine

Elliott Warren Abrams, Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology. Uncovering New Roles for the FoxA Protein Fkh and the bZIP protein CrebA in Drosophila Organ Development. Michael Scott Ackerman Jr., Program in Molecular Biophysics. Characterization of the Long-Range Structure of the Denatured State of Staphylococcal Nuclease Through the Analysis of Residual Dipolar Couplings. Lloyd Thomas Ackert Jr., History of Medicine. From the Thermodynamics of Life to Ecological Microbiology: Sergei Vinogradskii and the Cycle of Life, 1850-1950. Kristina Joy Aldridge, Functional Anatomy and Evolution. Organization of the Human Brain: Development, Variability, and Evolution.

José Luis Avalos, Biochemistry, Cellnlar and Molecular Biology Training Program—Biophysics and Biophysical Chemistry. Structural Studies of Sir2 Enzyme Mechanism.

- Nurjana Bachman, Biochemistry, Cellnlar and Molecnlar Biology Training Program—Molecular Biology and Genetics. Integration Target Site Preferences of the Ty1 Retrotransposon in S.cerevisiae.
- David Eduardo Barañano, *Nemroscience*. Mechanisms of Protection by Heme Oxygenases.
- Kristin Whitford Barañano, *Nemroscience*. Analysis of Slit1 Function in Neocortical Differentiation.
- Mirza Faisal Beg, *Biomedical Engineering*. Variational and Computational Methods for Flows of Diffeomorphisms in Image Matching and Growth in Computational Anatomy.
- Serge Bergeron, Biochemistry, Cellnlar and Molecular Biology Training Program—Biophysics and Biophysical Chemistry. Inhibition of SV40-Based DNA Replication by a Designed Zinc-Finger Protein.
- Rodrigo Igor Bustos, *Cell Biology*. Two Studies on Post-Golgi Trafficking in Polarized Cells.

Juanliang Cai, *Hnman Genetics*. Human Craniofacial Development: Genes and Their Expression Profiles.

Rachel Ann Cassidy, Program in Molecnlar Biophysics. DNA Triplex Formation by Base, Backbone, and Sugar-Ring Modified Oligonucleotides With HIV Targets.

Ying Chen, Biochemistry, Cellular and Molecular Biology Training Program-Nemroscience. Interaction of CAP70 with Actinfilin Dynamically Regulates Actin Cytoskeleton in Neurons. Yingbei Chen, Pharmacology and Molecnlar Sciences. The Role of BCL-xL in **Regulating Mitochondrial** Function and Neuronal Cell Death. Chekesha Clingman, Program in Molecular Biophysics. NMR Transverse Relaxation in Blood: Implications for the Intravascular Signal Contribution in Functional MRI. Valerie Burke DeLeon, Functional Anatomy and Evolution. Fluctuating Asymmetry in the Human Craniofacial Skeleton: Effects of Sexual Dimorphism, Stress, and Developmental Anomalies. Ryan Andrew Dick, Pharmacology and Molecular Sciences. Substrate Specificity and Catalytic Mechanism of NADPH-Dependent Alkenal/One Oxidoreductase. Jennifer Ann Dunston, Human Genetics. A Genetic Approach to Understanding the Phenotypic Variability of Nail Patella Syndrome. Yih-Ru Fannjiang, Pharmacology and Molecular Sciences. From Yeast to Mammals: A Functional Analysis of Fis-1 and BAK in Programmed Cell Death. Owen Patrick Faris, Biomedical Engineering. Assessment of Electrical and Mechanical Synchrony in the Heart. Susan J. Ferry, History of

Isan J. Ferry, *History of Medicine*. Bodily Knowledge: Female Body Culture and Subjectivity in Manchester, 1870–1900.

Loise Marie Francisco. Molecular Biology and Genetics -Program in Immunology. Characterization of Human **B7-DC: A B7 Costimulatory** Molecule Functioning in Bidirectional DC Signaling. Matthew Bryan Frieman, Cellular and Molecular Medicine. Fungal Cell Wall Proteins. Rivka Leah Glaser, Human Genetics. The Role of Paternal Origin and Frequency of Mutations in the Paternal Age Effect. David Raymond Graham, Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. Evidence for Human Immunodeficiency Virus and Simian Immunodeficiency Virus Virion-Associated Lipid Rafts: A New Model of Lentivirus Organization. Joshua D. Groman, Hnman Genetics. Genetic and Phenotype Analysis Indicates Multiple Etiologies of Non-Classic Cystic Fibrosis. Anthony Lawrence Guerrerio Jr., Program in Molecular Biophysics. Metal-Binding Properties of the Zinc Fingers in Metal Responsive Element-Binding Transcription Factor-1 and Design of Single-Stranded Nucleic Acid binding Proteins Using Nucleocapsid-Like CCHC Zinc-Binding Domains. Timothy W. Hefferon, Human Genetics. New Insights Into the Role of CIS-Acting Sequences in the Splicing of a Constitutive Exon. Nicola Mary Heller, Cellnlar and Molecular Medicine. The Regulation of the Activation of Airway Epithelial Cells by Cytokines and Glucocorticoids.

Daniel Alfredo Herzka. Biomedical Engineering. Fast Cardiac Magnetic Resonance Imaging: Improvements in Efficiency and Resolution for the Measurement of Cardiac Function. Anita Marie Hettena. Functional Anatomy and Evolution. A Three-Dimensional Analysis of Age-Related Change in the Adult Craniofacial Skeleton. David A. Hinkle. Nenroscience. The Neural Representation of Stereoscopic Disparity Tuning and Three-**Dimensional** Orientation Tuning in Area V4 of the Macaque Monkey Visual Cortex. Alyson Aiken Hobbs, Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology. Mmm1p Functions in

Contact Sites. Yi Elaine Huang, Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology. Phosphatidylinositol Signaling in Chemotaxis. Arne Ijpma, Cellular and Molecular Medicine. The DNA Damage Response to Telomere Dysfunction in S. cerevisiae. Jacob Michael Jones, Biochemistry, Cellnlar and Molecular Biology Training Program—Biological Chemistry. Peroxisome Biochemistry and Membrane Protein Import. Suzanne Ramirez Kalb, Pharmacology and Molecular Sciences. Chemical Modification of Specific Residues to Improve Peptide Antigen Sequencing by Mass Spectrometric Fragmentation.

Mitochondrial DNA

Nucleoid Structure at

Lin-Woo Kang, Biochemistry, Cellular and Molecular Biology Training Program—Biophysics and Biophysical Chemistry. Structure and Mechanism of Nudix Hydrolases: MT-ADPRase from Mycobacterium tuberculosis, DR-CoAse from Deiunococcus radiodurans.

Shin Hyeok Kang, Cellular and Molecular Medicine. The Roles of Homer-3 in Cerebellar Purkinje Neurons and Primary Thermal Sensory Systems. Gyanu Lamichhane, Cellular and Molecular Medicine. Genes Required for Growth of Mycobacterium tuberculosis in vitro and in vivo.

Marina Siu Chin Lee, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. Distinct Functions of the Spindle Checkpoint Proteins Mad1-Mad2, and Mad3.

Min Gyu Lee, *Biological Chemistry*. Molecular Insights into the Transcriptional Regulation of the Type II Hexokinase Gene in Highly Glycolytic Hepatoma Cells and Hepatocytes.

Alysa Leandra Lesemann, *Program in Molecular Biophysics*. Defining a Role for G-gamma-13 in Olfaction and Biochemical Studies of Olfactory Receptor Activation and AC3 Modulation.

Joseph Wesley Lewcock, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. Molecular Mechanisms Regulating Mono-Allelic Odorant Receptor Expression.

Hanzhang Lu, Biomedical Engineering. Vascular-based Signal Contrast in **Functional Magnetic** Resonance Imaging. Joshua Todd Mendell, Human Genetics. Cloning and Functional Characterization of Mammalian Trans-Effectors of Nonsense-Mediated MRNA Decay. Adèle Andra Mitchell, Hunnan Genetics. Theoretical and **Empirical Issues in Disease** Gene Mapping. Chester Gunn Moore, Neuroscience. Regulation of Group 1 Metabotropic Glutamate Receptor Function and Homer Interaction by Phosphorylation of the Homer Ligand. Rajendrani Mukhopadhyay, Biochemistry, Cellular and Molecular Biology Training Program-Physiology. Molecular Mechanisms of Establishing Microtubule Spacing. Michele Lee Nealen, Cellular

- and Molecular Medicine. Molecular Thermosensation in the Peripheral Nervous System.
- Celeste Marie Nelson, *Biomedical Engineering*. The Regulation of Endothelial Cell Form and Function by VE-Cadherin.
- Lindsay Thomas Odell, Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. The X-ray Crystallographic Structure of Phytanoyl-Coenzyme A Hydroxylase, an Fe(II) 2-Oxoglutarate Dependent Dioxygenase Involved in Refsum's Disease.

Sean Francis O'Hearn. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. Characterization of the Seven Major Polypeptides of the Trypanosoma brucei **RNA** Editing Complex. Emily Dawn Overholser, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Insights Into Simian Immunodeficiency Virus-Induced Central Nervous System Disease: The Role of the Astrocyte and the Endothelial Cell. Elaine Maria Pinheiro, Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. Roles of **Epithelial Polarity Proteins** and Guidance Cues in Drosophila Border Cell Migration. Kent J. Rohleder, Human Genetics. Physical and Functional Interactions Between Adenovirus E4 Proteins and Host Cell Proteins. Sarah Michelle Rue, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Molecular Mechanisms Involved in SIV Maturation. Jonathan Nathaniel Sachs, Biomedical Engineering. Structural Properties of the Lipid Bilayer and Aqueus Environment: Molecular Dynamics Simulations. Saurabh Saha, Cellular and Molecular Medicine. Discovery of a Phosphatase Associated with Metastatic

Colorectal Cancer.

Amar Sahay, *Biochemistry*, *Cellular and Molecular Biology Training Program— Neuroscience*. Secreted Semaphorin Functions in Axon Guidance and Synaptic Transmission.

Tina Marie Tominc Saxowsky, Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. Characterization of Mitochondrial DNA Polymerase β Enzymes of Trypanosomatid Parasites. Kara Ann Scheibner, Pharmacology and Molecular Sciences. Serotonin N-

Acetyltransferase: Filling in the Mechanistic Holes. Miriam Segura-Totten, *Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology.* Understanding the Role of Barrier-to-Autointegration Factor (BAF) in Nuclear

Assembly, Chromatin Condensation and Transcriptional Regulation. Jeffrey A. Shaman, *Pharmacology and Molecular Sciences.* The Specific Organization of DNA in the Mammalian Nucleus.

Guy Shechter, *Biomedical Engineering.* Respiratory Motion of the Heart: Implications for Magnetic Resonance Coronary Angiography.

James Kenneth Silverman, Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology, Characterization of Pianissimo: A Membrane Associated Factor Required for G Protein Coupled Receptor Regulation of Adenylate Cyclase in Dictyostelium discotideum. Zachary Squire Skelding, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. Target Based Regulation of the Tn7 Transposase.

- Ruijiang Song, *Pharmacology* and Molecular Sciences. The Adjuvant Effects of Chemokines and Cytokines on HIV DNA Vaccine Design.
- Jonathan Michael Sorger, Biomedical Engineering. Magnetic Resonance Imaging Applied to Cardiac Pathologies: Methods for Diagnoses and Delivery of Therapy.
- Daniel Ryland Southworth, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. The Ribosomal Components Involved in Translocation of the tRNA: mRNA Complex.
- Jonathan Milton Spenner, Program in Molecular Biophysics. Thermodynamic and Structural Analysis of a Valine-Valine Hydrophobic Interaction Across a Protein Beta-Sheet.
- Michael Edward Szperka, Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. Studies on the Expression of QA-1.
- Yunyue Wang, Cellular and Molecular Medicine. The Genomics of Early and Delayed Response of C-Myc Targets: Human Tert and Cyclin B1.
- Sarah May White, *Cellular and Molecular Medicine*. Identification of a Novel Domain That Regulates Mitosis: Insights from Human Ufd2.

Hong Xu, *Biological Chemistry*. Molecular Genetics of Drosophila Sensory Transduction.

- Haihong Ye, *Neuroscience*. Functional Roles of Local and Retrograde NGF-TrkA Signaling in Sympathetic Neurons.
- William H. York, *History of Medicine*. Experience and Theory in Medical Practice During the Later Middle Ages: Valesco de Tarenta (fl.1382–1426) at the Court of Foix.
- Jane Jinyin Yu, *Biomedical Engineering*. Spectral Information Encoding in the Cochlear Nucleus and Inferior Colliculus: A Study Based on the Random Spectral Shape Method.
- Joanna Maria Zarach, *Neuroscience*. The Role of Hairless, A Nuclear Receptor Corepressor, in
- Skin and Brain. Shan Zha, *Pharmacology and Molecular Sciences*. Cyclooxygenase-2 and alpha-Methylacyl-CoA Racemase in Prostate Cancer.
- Jiangwen Zhang, Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. Role of C/EBPβ in Adipogenesis.
- Yan Zhou, Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. In vitro Study of HIV-1 Latency.

# Doctors of Philosophy

# The G.W.C. Whiting School of Engineering

James Patrick Abulencia. Chemical and Biomolecular Engineering. Characterization of Shear Stress Response in Two Distinct Physiological Systems. Angela Marie Arnold, Geography and Environmental Engineering. An Interglacial (Sangamon) and Late Holocene Record of Chesapeake Bay. Daniel Joseph Bain, Geography and Environmental Engineering. 400 Years of Land Use Impacts on Landscape Structure and **Riparian Sediment Dynamics:** Investigations using Chromite Mining Waste and Property Mosaics. Stéphane Philip Bucaille, Electrical and Computer Engineering. Spatial Coherence of Atmospheric Turbulence Corrupted Laser Beams: Applications to Free-Space Optical Communications. Stephen Gaspar Buonopane, Civil Engineering. Reliability and Bayesian Approaches to the Probabilistic Performance-Based Design of Structures. Monica Maki Burdick, Chemical and Biomolecular Engineering. Characterization of Receptor-Mediated Interactions in Inflammation and Cancer Metastasis Under Flow. Daniel Lawrence Carlson, Geography and Environmental Engineering. Environmental Transformations of Chloroacetamide Herbicides: Hydrolysis and

Qiaoning Chen, Mechanical Engineering. Helical and Rotating Turbulence in Three Dimensions.

Leslie Michael Cope, *Applied Mathematics and Statistics*. Some Asymptotic Properties of Smooth Quantile Ratio Estimation.

Silviu Petru Cucerzan, *Computer Science*. Language Independent, Minimally Supervised Methods in Natural Language Ambiguity Resolution.

Derek A. T. Cummings, Geography and Environmental Engineering. The Spatial and Temporal Dynamics of Dengue Hemorrhagic Fever Incidence in Thailand.

Breno Fonseca De Medeiros, *Computer Science*. New Cryptographic Primitives with Applications to Information Privacy and Corporate Confidentiality.

Jeffrey Stephen Erickson, *Chemical and Biomolecular Engineering*. Adsorption of Molecules with Anisotropic Interactions: Theory and Simulation.

Jennifer L. Fiegel, *Chemical* and Biomolecular Engineering. Poly(ether-anhydride) Dry Particle Aerosols.

William Peter Fritz, *Civil Engineering*. Period and Damping Selection for the Design and Analysis of Building Structures.

David Howard Goldberg, *Electrical and Computer Engineering*. Efficient Spike Communication and Computation in Biological and Engineered Systems.

Xiao Han, *Electrical and Computer Engineering.* Anatomically Consistent Segmentation of Medical Imagery Using a Level Set Method and Digital Topology.

Reactions with Iron

Teresa Marie Kamm, *Electrical* and Computer Engineering. Active Learning for Acoustic Speech Recognition Modeling.

Qinjun Kang, Mechanical Engineeriug. Lattice Boltzmann Simulation of Flow in Porous Media.

Chang-Seok Kim, Electrical and Computer Engineering. Tunable Multi-Wavelength Fiber Lasers Based Novel Fiber-Optic Components. Jongbum Kim, Geography and Enviroumental Engineering. Multicriteria Bayesian Analysis of Lower Trophic

Analysis of Lower Trophic Level Uncertainties and Value of Research in Lake Erie.

Moon Ki Kim, *Mechanical Engineering*. Elastic Network Models of Biomolecular Structure and Dynamics.

Jan Kleissl, Geography and Environmental Engineering. Field Experimental Study of the Smagorinsky Model and Application to Large Eddy Simulation.

Tamar Kohn, Geography and Environmental Engineering. Reduction of Organohalides by Granular Iron: Co-Solute Effects and Mechanistic Considerations.

Thomas Pedicino Kole, *Chemical and Biomolecular Engineering.* Intracellular Mechanics of Cell Migration and Rho GTPase Mediated Cytoskeleton Organization.

Jie Liang, *Electrical and Computer Engineering*. Filter Bank Design for Image/ Video Compression and Digital Communications.

Haoyang Liu, *Civil Engineering.* Bayesian Classifiers for Uncertainty Modeling With Applications to Global Optimization and Solid Mechanics Problems. Lan Ma, Electrical and Computer Engineering. Feedback Control in the Chemotactic Signaling Pathway of Dictyostelium discoideum.

Alain Matta, *Civil Engineeriug*. Numerical Simulation and Uncertainty Quantification in Microfluidic Systems.

Lixin Mi, *Chemical and Biomolecular Eugineering*. Protein Hydrogels with Engineered Biomolecular Recognition.

Xiaobo Nie, *Mechanical Engineering*. Simulation of Granular Flow and Micro-Flow.

Cristina Nita-Rotaru, Computer Science. Secure Group Communications.

Ender Ozkan, *Civil Engineering*. Evaluation of Response Prediction Methodology for Long-Span Bridges Using Full-Scale Measurements. Izzet Pembeci, *Computer Science*. Functional Reactive

Programming as a Framework for Robot Programming and Hybrid Systems.

Michael C. Riley, *Computer Science*. Distributed Load Balancing.

Jianxu Shi, *Civil Engineering*. Stochastic Modeling of Materials with Complex Microstructure.

Chengjie Tu, *Electrical and Computer Engineering*. Pre-/Post-Filtering and Context Modeling for DCT Based Block Coding Systems.

Charles Fox Whitehead, Geography and Environmental Engineering. (Amino) Carboxylate Coordination Reactions with Ferric (Hydr)Oxides: Adsorption and Ligand-Assisted Dissolution.

Shuangmei Xu, Electrical and Computer Engineering. Reducing Semiconductor **Optical Amplifier-Induced** Crosstalk in Wavelength Division Multiplexing Links. Weishi Yuan, Applied Mathematics and Statistics. Asymptotic Properties and Inferences for Varying Coefficient Regression with Longitudinal Variables. Guoqiang Zang, Electrical and Computer Engineering. Bode's Integral—Extensions in Linear Time-Varying and Nonlinear Systems. Yu Zhou, Mechanical Engineering. Stochastic Modeling and Inverse Problems in Robotics and

## Doctors of Philosophy

# The Zanvyl Krieger School of Arts and Sciences

Bimolecular Mechanics.

Richard Shane Agin, *Romance* Langnages and Literatures. Translations of Aesthetic Experience: Diderot and the Dilemma of Writing on Art. Jennifer Joy Baggett, *Biology*. Investigating Clathrin Function in Yeast Endocytosis.

Dalit Baranoff, *History*. Shaped by Risk: The American Fire Insurance Industry, 1790–

Laura Ann Bauer, *Chemistry*. Nanowires: Synthesis, Fluorescence Functionalization, and Biological Applications.

Sarae Lorraine Bausch, *Chemistry*. Characterization of Elongation Factor G and Ribosomal Protein L11 from *Bacillus stearo thermophilus*: Interactions With Ribosomal RNA Fragments and Cooperative Effects of a Thiazole Antibiotic. Bryan Vernon Bergeron, *Chemistry*. Approaches to Optimize Photovoltage in Dye-Sensitized Solar Cells. Karen Ellen Bogen, *Sociology*. Jobs and Parenting 24-7: Web School and School

Work Schedules and Parenting of the Working Poor.

Christina M. Bradley, *Biophysics*. Stability, Cooperativity and Folding Kinetics of the Notch Ankyrin Domain.

Larry Daniel Bradley II, *Physics* and Astronomy. Physical Conditions in the Narrow-Line Regions of M51 and NGC 4151.

Girard John Brenneman III, *Philosophy*. Humean Natural Believing and the Design

Laura Anne Buttitta, *Biology*. Hedgehog and WNT Signaling Mechanisms in Mammalian Musculoskeletal Development.

Violaine Chauvet, *Near Eastern Studies.* The Conception of Private Tombs in the Late Old Kingdom.

Stephen Douglas Collins, *Political Science*. Purchasing Power: Economic Statecraft and International Structure.

Gergana Todorova Danailova-Trainor, *Economics*. Open Economy Policy Rules.

Mariana Libanio Dantas, *History.* Black Townsmen: A Comparative Study of Persons of African Origin and Descent in Slavery and Freedom in Baltimore, Maryland, and Sabará, Minas Gerais, 1750–1810.

Lisa Brett Davidson, *Cognitive Science*. The Atoms of Phonological Representation: Gestures, Coordination and Perceptual Features in Consonant Cluster Phonotactics.

Brian James Dean, Mathematics. Some Results on Stable Compact Embedded Minimal Surfaces in 3-Manifolds. Burcu Duygan, Economics. Aggregate Shocks, Idiosyncratic Risk, Consumption and Risk Sharing. Selim Elekdag, Economics. Essays on Monetary Policy in Emerging Market Anne Mary Epstein, Economics. Hospital Mergers and Their Effects on the Quality of Care: Is It Market Power That Matters? Mario Andreas Feit, Political Science. Mortality, Sexuality and Citizenship: Reading Rousseau, Arendt and Nietzsche. Ken DeVann Fentress, Near Eastern Studies. Ezekiel's Oracles Against Egypt: A New Study of Ezekiel Chapters 29-32. Kathleen Elaine Saavik Ford, Physics and Astronomy. Detection and Characterization of an Extrasolar Cometary System. Cuauhtémoc García-García, Biophysics. Electrostatics in **RNA-Protein Recognition.** Susanna Garfein, Near Eastern Studies. Temple-Palace Conflict in Pre-exilic Judah. Tara Gretchen Gilligan, Philosophy. Constructing a Moral Life: Literature and the Ordinary Moral Agent. Juliet Glass, History. The Royal Chapel of the Alcázar: Princely Spectacle in the Spanish Habsburg Court. Stuart Murray Gluck, Philosophy. The Metaphysics of Quantum Mechanics. Aaron Goodfellow, Anthropology. "Inqueeries": Tracing the Reproduction Legacies of Gay Men.

Harry Damon Gould Jr., Political Science, Toward a Neopragmatist Jurisprudence: New Haven, Contingency, and Obligation. Ivan Grabovac, Humanities. Thoreau's Passion. Michele Gunsior, Chemistry. Characterization and Analysis of Enzymes Involved in the Biosynthesis of Nocardicin A. Ahmed Mostafa Hafez, Chemistry. Generation of Highly Reactive Ketenes and Their Synthetic Utility as Intermediates in the Asymmetric Synthesis of **Biologically Active** John Tracy Hale, Cognitive Science. Grammar, Uncertainty, and Sentence Processing. Sonja Martin Hamilton, Romance Languages and Literatures. La Plume et le couperet: Enjeux politiques et littéraires de la peine de mort autour de 1830. Matthew Jonathan Harley, Biology. The Determination of Functional Amino Acid Residues for F TraI Relaxase Activity and Specificity. Adia M. Harvey, Sociology. "A Field Where You Can Do Well": Black Women's Entrepreneurship in the Hair Industry as a Pathway to Socioeconomic Attainment. Katherine Ann Helm, Psychology. Forebrain Regulation of Hypothalamic-pituitary-adrenal Function: Role in Aging and Neurodegenerative Disease. Paul Gerard Hoertz Jr., Chemistry. Charge Separation and Recombination in Dye-Sensitized Nanocrystalline Titanium Dioxide Films.

Vicki Hsueh, Political Science, Disrupting the Empire of Uniformity: Cultural Negotiation and the Emergence of Modern Constitutionalism. Dongli Huang, Biology. Chromosome Integrity Determinants in Saccharomyces Ho-fung Hung, Sociology. Dynamics of Popular Contentions in Mid-Oing China. Stefanie Lyne Japel, Earth and Planetary Sciences. A Study of Light Elements and Water in the Earth's Interior. Prashanth Kasturi Rangan, Biophysics. Folding of the Azoarcus Intron. Wendy L. Kelly, Chemistry. An Investigation into the Enzymes Required in the Biosynthesis of the .B-Lactam Antibiotic Nocardicin A. Yi Le, Physics and Astronomy. Measurement of the  $\Lambda_{\rm b}$  to  $\Lambda_c \pi$ - Branching Ratio. Andrew Brett Leber, Psychology. On the Maintenance and Switching of Attentional Set. Seok-Min Lee, Mathematics. On Certain Cohomological Invariants of Quadratic Number Fields. Surjeet Singh Mastwal, Biology. Latrophilins: Synaptic Proteins with a Novel Epithelial Function in Caenorbabditis elegans and the Evolution and Function of Family B G-protein Coupled Receptors. Michael J. May, Physics and Astronomy. Effective Field Theory: Stability and Phenomenology of Extra Dimensions. Dana Lynn Miller, Biology. Oligomerization of TraM and Its Role in Conjugative Transfer of the F Episome.

Darlene Ruth Miller, Sociology. The Regional Claims of Workers in Post-Apartheid Southern Africa: A Case Study of Shoprite, a Retail Multinational, in Zambia and Mozambique. Jacques Alain Miniane, Economics. Four Essays on Theoretical and Empirical Aspects of International Capital Flows. Andrea Mara Molod, Earth and Planetary Sciences. Interactions Between the Heterogeneous Land Surface and the Atmosphere in Global Models. Luc André Monnin, Romauce Languages and Literatures. Genèses analytiques à l'âge des Lumières. Kevin B. Moore, Economics, Essays on Self-Employment and Entrepreneurship. Matthew J. Moore, Political Science. Living Plurality: Contextualism And Politics. Nakisha Denise Moore, Biology. Engineering and Understanding Protein-Arm Susan Winther Morris, History of Science, Medicine, and Technology. Resource Networks: Industrial Research in Small Enterprises 1860-1930. Eric M. Muller, Biology. Regulation of Ca<sup>2+</sup> Influx During the Pheromone Response of Saccharomyces cerevisiae. Takéhiko Nakama, Psychology. System Identification Analysis of Neuronal Responses to Bimanual Stimulation in the Second Somatosensory Cortex. Hina Nazar, Euglish. The Social Idea: Thinking and Attachment in the Novel.

Azin Ghorbani Nezami, Biology. Structure-based Design of Novel Inhibitors of Plasmepsins: A Family of Anti-Malarial Targets. John Jackson Nichols, Near Eastern Studies. Amorite Agro-Pastoralism and the Early to Middle Bronze Age Transition in Syria. John Michael Nilles, Chemistry. Bridging the Gap: Gas Phase Study of Condensed Phase Phenomena. Kristine Funkhouser Nowak, Biology. The Epsilon Subunit of Chloroplast ATP Synthase: Effects of C-terminal Deletions on Enzyme Activity and Regulation. Cristina Mercês Oliveira, Physics and Astronomy. A Study of Deuterium in the Local Interstellar Medium. Jin-Hyouk Park, Biology. Roles of Dynactin Complex in GR Signaling Pathway. Riccardo Pelizzo, Political Science. Cartel Parties and Cartel Party Systems. Tim R. Pollack-Lagushenko, History. The Armagnac Faction: New Patterns of Political Violence in Late Medieval France. Christopher Powers, Humanities. Ambivalent Freedom: The Politics of Style in the Writings of James Joyce and Ralph Ellison. Leopoldine Henriëtte Prosperetti, History of Art. Jan Brueghel and the Landscape of Devotion: Spiritual Reform and Landscape Subjects in Antwerp Painting Between 1595

Bobby Ramdhanie, *Chemistry*. Synthesis and Spectroscopic Characterization of Metallotriazacorroles. Michele Redi, *Physics and Astronomy*. Effective Field Theories of Warped Extra Dimensions.

- Christophe Philippe Reuland, *Romance Langnages and Literatures.* Des Moulins pour des géants. Essai sur l'imagination dans l'oeuvre romanesque obscène du marquis de Sade.
- Michelle McLaurin Rodriguez, *Political Science*. Administration in Public: Arendt and Habermas on Government Initiative. Jennifer Louise Roff, *Economics*. A Stackelberg Model of Child Support and Welfare.
- Neil Franklin Safier, *History*. Writing the Andes, Reading the Amazon: Voyages of Exploration and the Itineraries of Scientific Knowledge in the
- Eighteenth Century. Joseph Benedict Sala, *Psychology*. Active Maintenance and the Binding of Information During Working Memory.
- Jennifer Janne Sartor, *Psychology*. The Role of Variation in Singing Behavior in the Regulation of Seasonal Neuroplasticity in European Starlings.
- Mark Harry Seibert, *Physics* and Astronomy. Ultraviolet and Infrared Properties of Extra-Galactic Star Formation.
- Sarah Shomstein, *Psychology*. Multimodal Control of Selective Attention: The Role of Parietal Cortex During Attentional Shifts.
- Elke Siegel, *German*. Entfernte Freunde. Drei Fallstudien zur Freundschaft der Moderne (Nietzsche, Freud, Kafka).

and Applications of Submicron Magnetic Structures. Lisa Michele Siraganian, English. Breathing Freely: The Object of Art and the Subject of Politics in American Modernism. Anthony Stapon, Chemistry. The Elucidation of the Carbapenem Antibiotic Biosynthetic Pathway. Jyothishmathi Swaminathan, Biology. Characterization of the Functional Role of Histone 2A Variant, H2Av, in Drosophila melanogaster. Xiaofeng Tan, Chemistry. Spectroscopy and Dynamics of van der Waals Complexes Containing the Aluminum Atom and of Several Small Molecules. Monica Tanase, Physics and Astronomy. Ferromagnetic Nanowires: Field-Induced Self-Assembly, Magnetotransport, and Biological Applications. Tatjana Polony Thomas, Biology. RNA Processing and Tumorigenesis: A Study of the Function of the negative Regulator of Splicing in Avian Leukosis Virus. Mark Lloyd Thompson, History. National Subjects in a Contested Colonial Space: Allegiance, Ethnicity, and Authority in the

Daniel Marc Silevitch, Physics

and Astronomy. Properties

Seventeenth-Century Delaware Valley. Tanya J. Tiffany, *History of Art*. Interpreting Velázquez: Artistic Innovation and Painted Devotion in Seventeenth-Century Seville. Andrew George Timmes, *Biology*. Activity on

*Biology*. Activity on Monomeric DNA Binding Domain of AraC With and Without an N-terminal Activating Arm. Jessica Torres, *Chemistry*. Radical Reactions With Organic/Polymeric Surfaces.

Vittorio Trionfi, *Romance Langnages and Literatures*. The Surrealist Imaginary of Antonin Artaud (1924– 1929).

Rosemary Constance Trippe, *History of Art.* The *Hypnerotomachia Polifili* and the Image of Italian Humanism.

Oskar Vafek, *Physics and Astronomy*. Quasiparticles and Vortices in the High Temperature Cuprate Superconductors.

Walter Andrew Wasylenko, *Chemistry*. Chemistry and Spectroscopy of Oxynitrenes and Sulfenylnitrenes.

Hadiya Atasha Watson, *Biology*. Role of the Yeast Epsin Ent1 in Endocytosis and Actin cytoskeleton Organization.

Sanne Rusalka Wellen, *History* of Art. Andrea del Sarto, "Pittore senza errori": Between Biography, Florentine Society, and Literature.

April Ariana Wuensch, *French*. Beckett et le séjour narratif: l'espace, du théâtre au *Dépenplenr*.

Guihua Xie, *Sociology*. Market Transition of Laid-off Workers in Urban China.

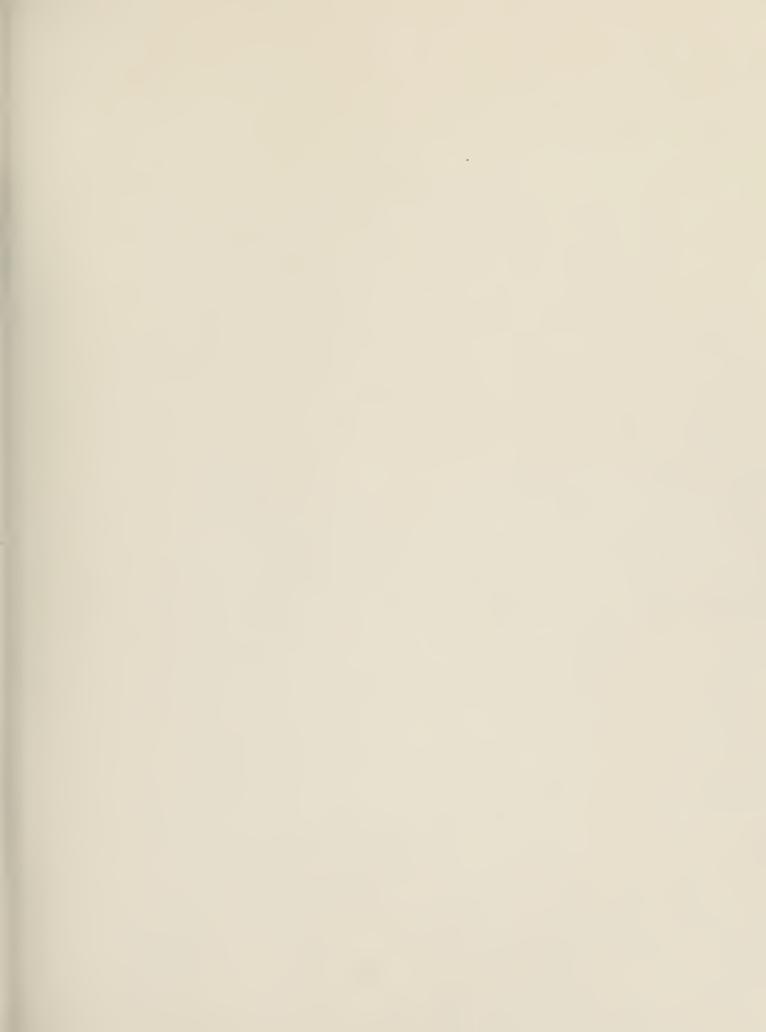
Xiaobo Xie, *Physics and Astronomy*. Integrated Devices for RF Photonics: Design and Optimization.

Xiangjin Xu, *Mathematics*. Eigenfunction Estimates on Compact Manifolds with Boundary and Hörmander Multiplier Theorem.

Kai Yi, Physics and Astronomy. A Measurement of the  $\Lambda_{\rm b}$ Lifetime Using Semileptonic Decays and Observation of the New State X(3872). Craig Bryan Yirush, History. From the Perspective of Empire: The Common Law, Natural Rights and the Construction of American Political Culture, 1689–1774. Michael Arthur Zeitler, English. Representations of Culture: Thomas Hardy's Wessex and Victorian Anthropology. Sirong Zhang, Mathematics. Curvature Estimates for

Constant Mean Curvature Surfaces in 3-Manifolds.

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# Office of the Registrar

75 Garland Hall / 3400 N. Charles Street Baltimore MD 21218-2688 410-516-8080 July 2004

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 2004 Commencement Program:

- 1. Departmental Honors (Arts & Sciences) Page 25 27
  - Add:Michael Anthony Balazs, Computer Science (second major)John Paul Bida, MathematicsBrendan Patrick Costigan, Political ScienceCassandra Rae Duffy, History of ArtAlexandra Kate Mariette Fenwick, Writing SeminarsHoi Man Connie Ho. Public Health StudiesHadi Husain, Computer Science (second major)Rapahel Daniel Schweder-Koren, Computer Science (second major)Emanual Alexandre Strauss, Computer Science (second major)Christopher Pascal Tallent, Political ScienceMadhav Raina Thapan, International StudiesMan-wing Joanne Tsui, Computer Science (second major)

Departmental Honors (Engineering) Page 26 - 27

- Add: Soo-Young Cho, Computer Science Rebecca Elizabeth Lund, Electrical Engineering Justin Howe Kearns, Computer Engineering
- 2. Bachelors of Science in Biomedical Engineering (Engineering) Page 28
  - Add: Nicholas Liu Chang Cher
  - Delete: Joshua Michael Danza Leven Laura Ann Sprowls

## 3. Bachelors of Science in Civil Engineering (Engineering) Page 28

Delete: Ryan Christopher Hanley

4. Bachelors of Science in Computer Engineering (Engineering) Page 28

Delete: Glenn Mason Wilson

5. Bachelors of Science in Computer Science (Engineering) Page 28 - 29

Delete: Marc David Lassin William Emerson Six

6. Bachelors of Science in Electrical Engineering (Engineering) Page 29

Delete: Michael Willem Kruger

7. Bachelors of Science in Mathematical Sciences (Engineering) Page 29

Delete: Henry Hyuck Paik

8. Bachelors of Arts in Biomedical Engineering (Engineering) Page 29

Delete: Frederick Chengtin Yeh

9. Bachelors of Arts in Computer Science (Engineering) Page 29

Add: Raphael Daniel Schweber Koren Hyun Woo Yoon

- 10. Bachelors of Science in Molecular and Cellular Biology (Arts and Sciences) Page 30
  - Add: Gehaan Franklin D'Souza Jamie Allison Stratton

Delete: Andrew Ryan Turkenhopf

- 11. Bachelor of Arts (Arts and Sciences) Page 30 33
  - Add: Parker Burgess Emmett Ryan Michael Ford Andrew Ryan Turkenhopf Frederick Chengtin Yeh
  - Delete: Eric Hyungene Ahn **David McKinley Harris** Kevin John Boland Ryan Donovan Hopson Victoria Lee Calderón Chang-Berm Kang Christina Tien Hui Choi Ashley Duqué Kienzle Kyuhwa Chung Sovoung Kim Gehaan Franklin D'Souza Maria Jeanne Malbroux Luke Horsfall English Neena Ishwari Marupudi Conor Joseph Ford Maura Rose McTague Joe Andrew Nuni Kelly Laurena Greaves Joseph Salvatore Guarino **Daniel Steven Ong**

Michelle Anastasia Polley Dushon DeVere Riley Ana Lauren Rosner William Marshall Ross Christopher Paul Said Raphael Daniel Schweber Koren James Stevenson Matthew Clayton Stoffel Jamie Allison Stratton Kevi Farrell Telford

- 12. Bachelor of Music (Peabody) Page 33
  - Delete: Lauren Dannelly, Delete Recording Arts and Sciences only- still received BM in Violin Kenneth Hin Joong Lun, Trumpet
- 13. Bachelors of Science (School of Nursing May 2003) Page 33

Delete: Jeretha I. Mangahas

- 14. Bachelor of Science (School of Professional Studies in Business and Education) Pages 34 35
  - Delete: Robert Gaskins Jr., Management William Joseph Perkins, Business and Management
- 15. Graduate Certificates in Business (School of Professional Studies in Business and Education) Pages 35 36
  - Add: Antoinette Hicks, Business of Medicine
  - Add: The following students earned a Graduate Certificate in Leadership Development: Preston D. Alderman, Jr. Kevin Ulysses Johnson Jennell M. Alexander Angela Yvette Liggins Lisa Renata Brewster Angela Louise Mellerson Cassandra Brown Patrick G. Moffett Makeba Jo Anna Brown-Moyenda Mamie Regina Moore Sullie Evetter Coleman Durell T. Myers Tonika Nicole Coley Wayne Ramon Newman Angelita Latonya Crawford Annette Theresa Roane Melicia Ann Dupree Srinivasa Varma Rudraraju Farissa Natasha Elvis Carlton Joe Shaw Lawrence Winston Fryer, Jr. Latarsha M. Smith Jacqueline Renee' Glover Juan C. Torrico Oneida L. Holman Sharon Washington Webb
  - Delete: Henri Blech Yitzchak S. Jacobovitz
- 16. Graduate Certificates in Education (School of Professional Studies in Business and Education) Page 36-38
  - Add:Mica Llin Brindle, Differentiated/Inclusive Education: Advanced Methods for Instruction<br/>Fernanda Jaramillo, Education of Students with Autism and Other Pervasive<br/>Developmental Disorders<br/>Johahn B. Oliphant, Administration and Supervision
  - Delete: Candace Sheree Gibbs, Administration and Supervision

Sandra Sue Reece (Delete the Leadership In Technology Integration cert. Only) Diane Denise Savage<sub>a</sub> Administration and Supervision

- 17. Master of Science (School of Professional Studies in Business and Education) Pages 38 44
  - Add:Michele Yvette Amerson, Education<br/>Alhassan Theodore Bangura, Finance<br/>David Ethan Bielory, Counseling<br/>Mica Lin Brindle, Special Education<br/>Alexis Bakrim Cotay III, Education<br/>Fernanda Jaramillo, Special Education<br/>Jonathan D. Nachtsheim, Information and Telecommunication Systems<br/>Sylvie Kajuru Nkere, Education<br/>Rachel Elizabeth Solomon, Education<br/>Jagadeesan Sriramkumar, Information and Telecommunication Systems<br/>Valerie Bonita Stamper, Education

Delete:	Sunny Davies Atteh Chi	Linda S. Moorman
	Kelly Nicole Brown	Charles Alan Morgan
	Timothy Lynn Carter	Anne M. Murphy
	Nicholas Coppolino	Brian Henry O'Hear
	Soraya Cinira Dos Santos	Edith Nnenna Onyirimba
	Kathleen Maureen Faber	Sandra Sue Reece
	Ramon Maria Garcia	James Andrew Schroeder
	Michael Anthony Gerran	Eve Williams Spearman
	Sonja Rae Gladwin	June I. Thomas
	Siamak O. Gorgreen	Daryl E. Walsh
	Donald Edward Leake	Sybille R. Young

18. Masters of Business Administration (School of Professional Studies in Business and Education) Page 45 - 46

Add:	Ramesh Byanjankar John F. Dore William Joseph McDermond, III Erik John Newhouse
Delete:	Zembaba Ayalew Henri Blech Marilyn McDonald Essex Wavell Constantine Hodge Mark D. Lewis
Corrections:	Mispelled names: Binita S. Ash <u>a</u> r Mohamed Momodu Koroma

19. Master of Arts in Teaching (School of Professional Studies in Business and Education) Page 46 - 48

Add: Yahbome Irene Bash-Taqi Joseph Michael Connelly, III David Michael Hildebrand Anissa Shawn Stubbs Celissa Shanette Tucker

Delete:

Ann Hanlon Adams Michele Yvette Amerson Joseph A. Avara Damian Avichi Mia Olivia Ball Magali Barbaran **Emily Jean Benson** Crystal A. Blue Carolyn Lou Bowman Cheryl Hyman Carpenter **Connie Liao Chang** Sammy A. Conteh Alexis Bakrim Cotay, III Karen Grace Crawford Marcus Javon Davis Meredith M. DeGemmis Shiquetta Sherrill Dixon Lee Erin Kathleen Doland Ryan Vincent Farrell **Diana** Fink Beth Jane Foster Amy Miller Gartland Job Shin Grotsky Victoria Hamilton Kristen Angela Harkness

Wendy Pamela Harris William Howard Hill, Jr. Zachary Jaffe Katie Anne Keelev Robert Alan Kennedy Joel LaTorre Donna Ann McNeill Tamyka S. Morant Roseline Enayi Njar Marilyn E. Palmer Marie Laurie Parfait Edward J. Pietroski Jennifer Leigh Poisson Lauren F. Rogers Barbara Elizabeth Ryan Toby Jan Salahuddin Tara Maxine Sanguinette Andrew William Schroeder Valerie Bonita Stamper Nicole Stewart Jacqueline Annette Tyson-Hope Yiping Helen Wang Cynthia Marie Welch Chevanne Maree Zahrt Andrew Robert Zapke

20. Post -Master's Certificates in Education (School of Professional Studies in Business and Education) Page 48

Delete: Anise MaSean Walker

21. Masters of Science in Nursing (Nursing) Page 48

Delete: Charia Louise Friend

## 22. Master of Science Nursing/Master of Public Health (Nursing) Page 48

Delete: Deirdre Fiona Flowers

- 23. Graduate Performance Diploma (Peabody) Page 48
  - Delete: Rebecca Gordon, Voice SooKyung Jeong, Viola Bohuslav Rattay, Conducting

## 24. Masters of Music (Peabody) Page 49

	Add:	Ilya Mayzus (Also received a MM in Composition)
	Delete:	HoYao Chang, Voice
		Christopher Dennis Dunn, Guitar
		Mark Kris Emon, Computer Music Research
		Sujung Sun, Piano
		Piotr Adam Zielinski, Guitar
	Correction:	Elizabeth Sarah Mahler, Violin/Pedagogy
25.	Master of Arts - Pl	ease add in Acoustics and Audio to the degree title (Peabody) Page 49

- Delete: Richard Alexander Staherski
- 26. Masters of Health Science (Public Health) Page 49 51
  - Delete: Jing Feng Susan Gail Gerhardt Caroline Afia A. Lomo Raquel Maria Peralta Laurena Leigh-Charlotte White Rena Rosa Yi Ji Yeon Yu
  - Correction: Justine E-Time Dang should be Justine E-Time Dang
- 27. Masters of Public Health (Public Health) Page 51 52
  - Add: Claire Magner Hannan Joan Stelmack
  - Delete: Jerome J. Graber Sophia Jan
- 28. <u>Master of International Public Policy</u> (School of Advanced International Studies) Page 52
  - Add: Paal Aavatsmark Maria Marcich
  - Delete: Delrose Eunice Montague
- 29. Master of Arts in International Affairs (School of Advanced International Studies) Page 52
  - Delete: Chloe Dalton Elisabetta Gnudi Candice Koo

30. Master of Arts (School of Advanced International Studies) Page 53 - 54

Add:

Kathleen M. Benedict Mark T. Fung Daniel C. Joyce

Delete: Negar Akhavi Elana Danielle Aquino Farrah Barrios Rebekah Callard Pavlo Chernyshenko Vicky Cheung Darlene Michelle Damm Dennis Ilustre Eucogco Maria Andrea Farkas Tracy Henrietta Gerstle Wendy Lynn Glickman **Daniel Gould** Peter Holland Rachel Yann-Eel Huang Mohammad Adnan Iqbal John Stephen Juech Lisa Levine Anel Radikovna Kulakhmetova Sean Lee Lisa Shih Yun Liao Sebastian Linnemavr Edward Thomas Mannix III Janean Elyse Martin

Carl Victor McCoy Catherine McSweeney Michael Joseph Metzler Rashmi Kamalakar Pendse Thu-Uyen Phan Jennifer Michelle Pope Jeannie Ji Yun Rhee Jocelyn Davie Roberts Loren Hayes Runyon Karim Sadjadpour Edward Jonathan Sappin Heather Nicole Schlachter Shilpa V. Shah Christopher Richard Wilson Shephard Kristin Lalinda Smith Katie Andrea Stauss Thomas Darien Sturges Katsiaryna Svirydzenka Camilo Tellez Merchan Nisha Thirumurthy Melissa Child Tilghman Marcos Toledano Vaena Ibrahim Mohsen Zabad

#### 31. Masters of Materials Science and Engineering ADD the Degree Categories to page 55

Add: Marissa O'Donnell

## 32. Masters of Science (Engineering) Pages 55 - 60

Add:	Sriram Ananthanarayanan, Geography and Environmental Engineering
	Steven C. Bono, Security Informatics
	Wilbur Y. Chen, Computer Science
	Peter L. Flannery, Computer Science
	Derek Clayton Fulk, Electrical and Computer Engineering
	Alicia T. Joseph, Geography and Environmental Engineering
	Sampath Parthasarathy, Computer Science
	Lewis Ross Raszewski, Security Informatics
	Vikas Sood, Computer Science
	Kimbel Leonard Summerville, Computer Science
	Liren Yang, Electrical and Computer Engineering

Delete: Lawrence Martin Dobbs Jr., Applied Biomedical Engineering Endora Fleming, Information Systems and Technology Luke Andrew Johnson, Security Informatics Rezwan Rais, Computer Science Amit Kumar Sharma, Information Systems and Technology Joseph Michael Smith, Geography and Environmental Engineering Wei Ting Timothy Woo, Security Informatics

## 33. Post- Master's Advanced Certificates (Engineering) Page 60

Add:	Stuart Dwight Harshbarger, Applied Biomedical Engineering

Delete: Andrew Evander McCoy, Computer Science

## 34. Masters of Science in Engineering (Engineering) Pages 60

Reneé Jeanne Filion, Biomedical Engineering		
Stephen Christopher Martin, Mechanical Engineering Charles Franklin Schafer III, Computer Science		
Sriram Ananthanarayanan, Geography and Environmental Engineering		
Borga Can Aymutlu, Computer Science		
Ying Bai, Electrical and Computer Engineering		
Ja Tara Chanel Brown, Computer Science		
Ryan Wallace Caudy, Computer Science		
Nadia Farooqi, Computer Science		
Kathryn Anne Hayes, Computer Science		
Leonard Chinedum Onyiah, Computer Science		
Asher Hanan Peltz, Civil Engineering		
Neda Bell Poommipanit, Biomedical Engineering		
Srihari H. Reddy, Electrical and Computer Engineering		
Mark Richard Seaborn, Computer Science		
Quan Zhang, Mechanical Engineering		

## 35. Masters of Arts (Arts and Sciences) Page 61 - 63

- Add: Adhiraj Bharat Sarpeshkar, Mathematics
- Correction: Julia Yarmolinkskaya last name is spelled: Yarmolinskaya

## 36. Masters of Science in Biotechnology (Arts and Sciences) Pages 63 - 64

Add:	Miguel Luis Covarruvias	
	Lakeisha Sharese Galloway	
	Therese Wu Vardon	
Delete:	Paul Andrew Sachtleben	

37. Master of Arts in Communication in a Contemporary Society (Arts and Sciences) Page 64

Add: Angela Kristi Moffett Isabella Obnial Platon

38. Masters of Science in Environmental Sciences and Policy (Arts and Sciences) Page 64

Delete: Angus Macdonald Parker

39. Master of Arts in Government (Arts and Sciences) Page 64 - 65

Add: Theda Benja - Athon

Delete: Christopher King Ross Mary Lakeisha Corbin

- 40. Masters of Liberal Arts (Arts and Sciences) Page 65
  - Add: Edward O. Doyle Gillespie

Delete: Daryl Matthew Carson Suzanne Nadine Stackhouse (Pessot)

41. Master of Arts in Writing (Arts and Sciences) Page 65

Delete: James Reginald Wideman

42. Artist Diploma (Peabody) Page 65

Delete: Christie Julien, Piano

43. Doctor of Musical Arts (Peabody) Page 65

Add: Jieun Jeanie Lee, Piano





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